

FIG. 1

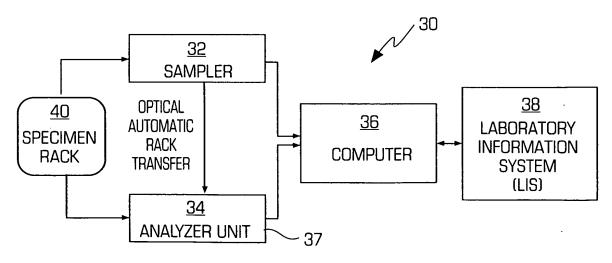


FIG. 2

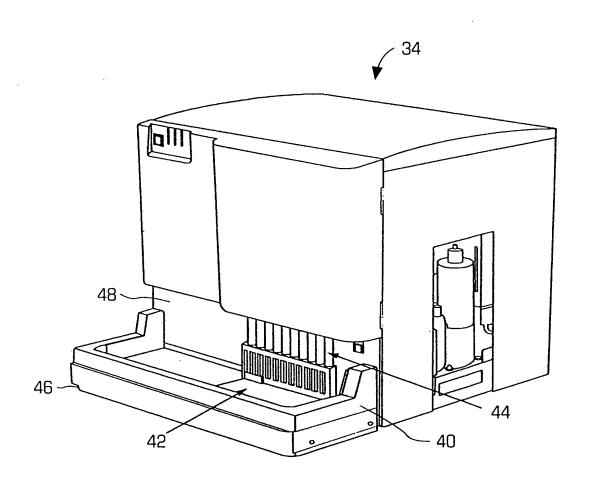
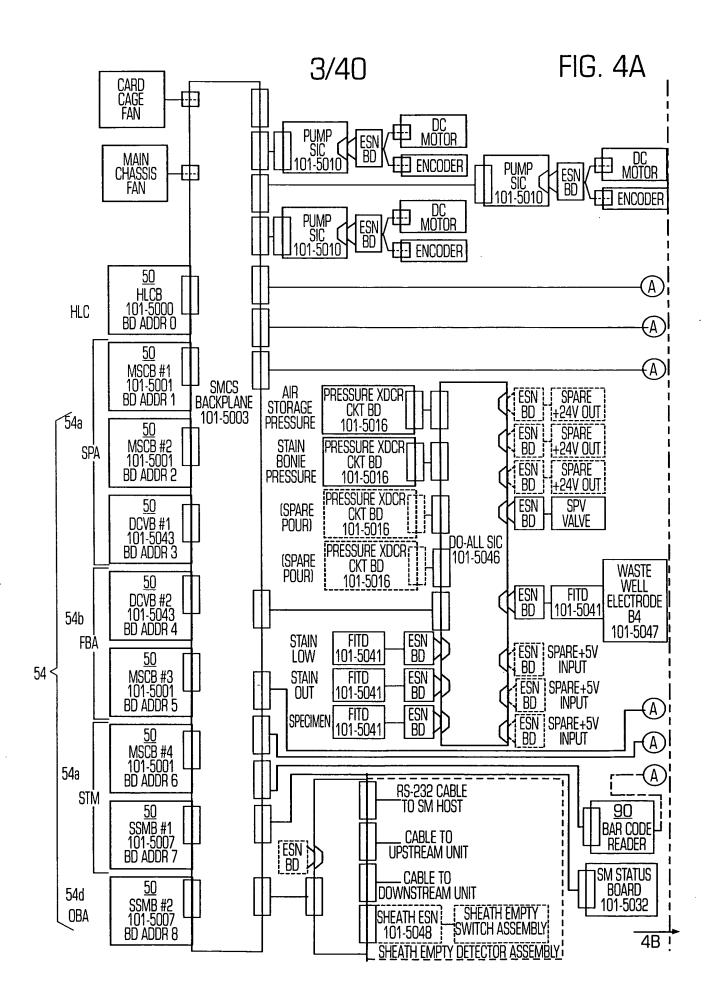
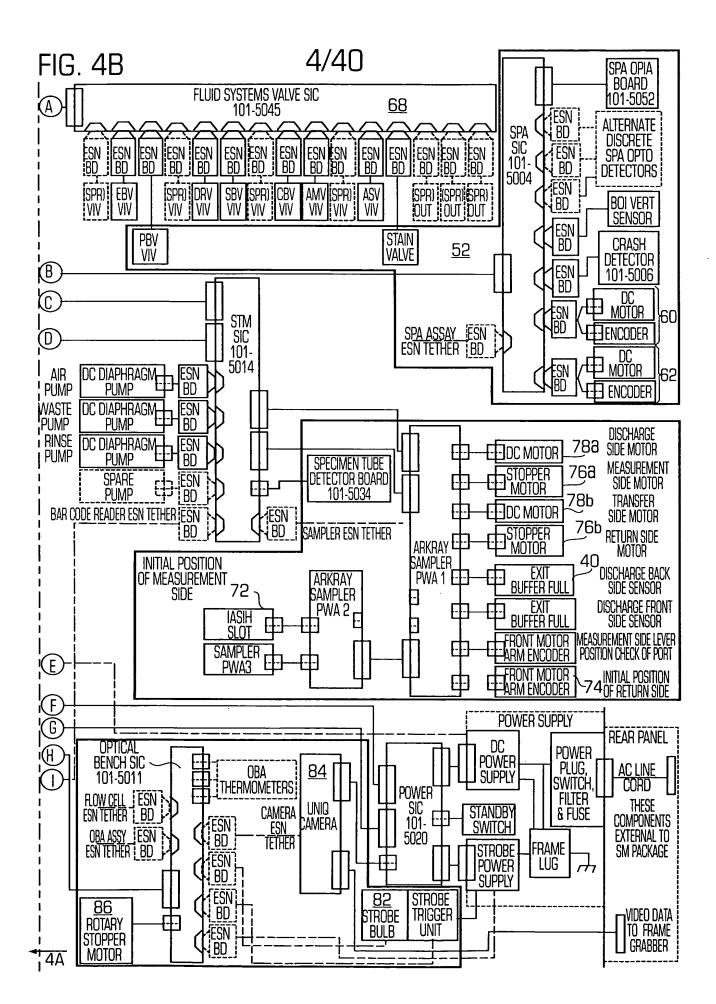
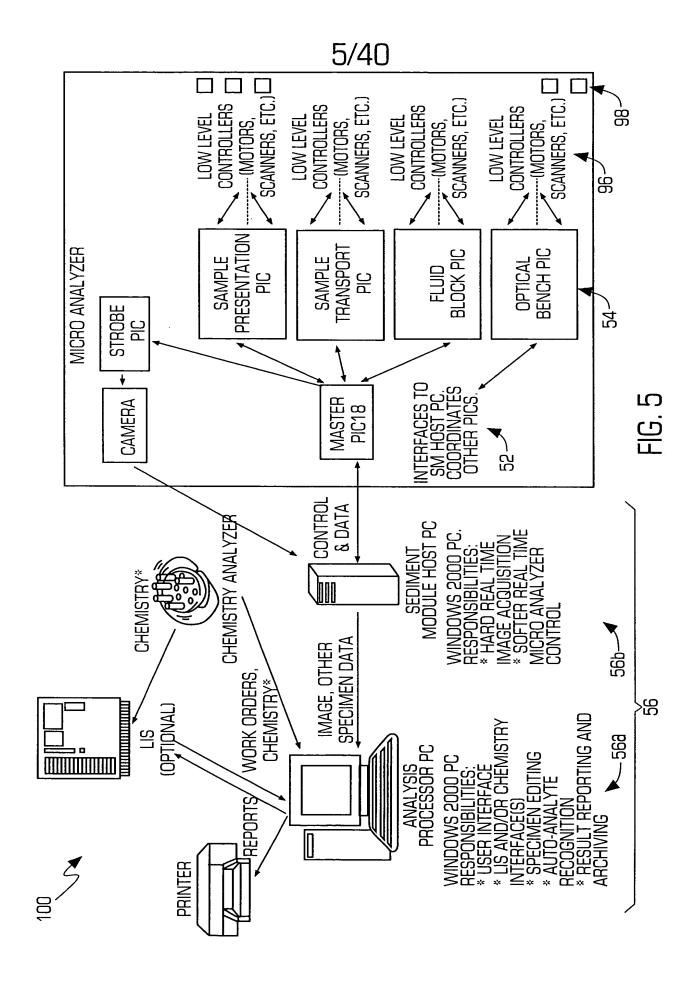


FIG. 3

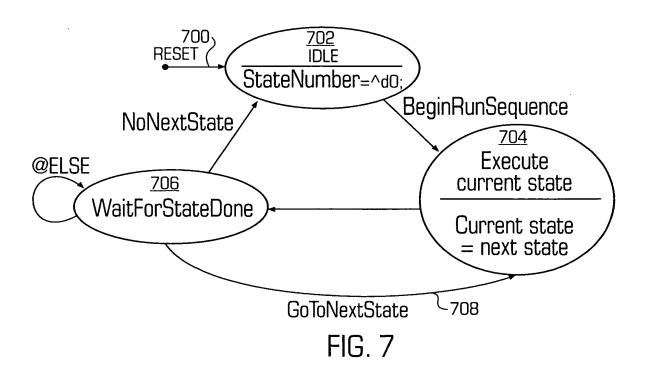






0.0	20			6/40
60	JU	605	604	606
	1.0	DECIN	I CAID	COMMENT
<u>L1</u>	<u>L2</u>	BEGIN	END	COMMENT
R	H	1	14	RESET THIRD LEVEL CONTROLLERS
1	6	15	99	RESUME RUNNING RACKS
G	0	18	99	RUN RACKS UNDER HOST CONTROL
S	S	395	434	SERVICE SPECIMEN (RUN TUBES W/O HOST PC)
0	Ε	100	103	CLEAR RACK
R	Q	104	148	RUN QC CONTROL
1	7	149	336	RUN AUTOFOCUS CONTROL
W	8	335	349	WAIT FOR COMMAND, BUTTON, RACK OR TIMEOUT
Z	Ζ	393	394	SLEEP
P		350	366	IRISOLVE CLEAN
W	S	435	439	SHORT WAKEUP
W	Μ	440	444	MEDIUM WAKEUP
W	L	445	449	LONG WAKEUP
S	D	450	453	SHUTDOWN
W	Α	350	392	WASH WITH BLEACH
D	L	454	481	RUN DILUENT
K	L	482	485	KILL (WAIT FOR POWER OFF)
В	Χ	486	487	BACKGROUND EXIT ERROR

FIG. 6



IG. 8	3A1	300 7/	40	30				30	<b>`</b>	
05	304 \		3068	306b 2	306C 3	306d <u>;</u>	308a (3	08b	08C	308d
STATE ST	TATE DESCRIPTION		SPACMD	FBACMD		1				OBASTAT
0	- Tuou		0X0000	0X0000	0X0000			0X00	0000	
1 RESET	HIGH SHEATH BOTTLE FILL		RE S1	RE 0X0000	RE 0X0000	RE 0X0000	OXFF OX32	OXFF OXOO		OXFF OXOO
3 WAIT F	OR STIDLE AND SHEATH	BOTTLE FULL, OR TIMEOUT	0X0000	0X0000	0X0000	0X0000	0XFF	0X00		OXOO
	OFF SHEATH PUMP	TOTTLE FOLE, OIL TIPLEOUT	SO.	0X0000	0X0000	0X0000	0X33	0X00	0X00	0X00
5 WAIT F	OR SO IDLE	NEW	0X0000	0X0000	0X0000	0X0000	OXFF I	0X00 I	0X00	0X00
6   1EST S	SHEATH LOW SENSE CONI TH SENSE IS OK, SEND MI		0X0000 0X0000	0X0000 0X0000	000000	0X0000 0X0000	0X00 0X00	0X00 0X00		0X00
8 TEST S	IN DENDE 10 UN, DENU I'II Shfath Empty Sense ((	INDITION	0X0000	0X0000		0X0000		0X00	0x00 0X00	0x00 0X00
9 SHEAT	TH SENSE IS LOW. SEND N	MESSAGE TOSM	0X0000	0X0000	0X0000		0X00	OXOO	0x00	0x00
10 SHEAT	H SENSE IS EMPTY, SEND M	ESSAGE TOSM, BRANCH TO "CLEAR RACK"	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0x00	0x00
11 STAR	T 3 FUNCS: PH, CR,HS		PH	HS	CR	0X0000	0X00	0X21	0000	0x00
12 WAIT 13 WAIT	FOR SPA FOR STM		0X0000 0X0000	0X0000 0X0000	0X0000		OXFF	0X00	OXOO OxFF	0000
14 END	run əti"		000000	0X0000	0X0000		0X00	0X00	OXOO	0X00 0X00
15 BEGIN (BUTT	INING OF GO RESUME (16 Ton Green, Led Blue)	5); SET FRONT PANEL LIGHTS	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
161 RE-RI	EAD THE BARCODE		0X0000	0X0000	BC	0X0000	0X00	0X00	0x44	0X00
1/1 BKAN	ICH TO "RETRIEVE TUBE I Vinng of Go Command:	NOWREK.	0X0000	0X0000	0X0000		0X00 0X00	0X00 0X00	0X00	0X00 0X00
18 BEGIN 19 WAIT F	NINNG OF GO COMMAND. For SM Reply Whose Arg	ASIA SIM IF WE CAN STAIN UMENT INDICATES WHETHER TO PROCEED	0X0000	0X0000	0X0000			0X00	0000	0000 T
		O CANNOT GO: ELSE FALL THROUGH	0X0000	0X0000	0X0000			0X00	0X00	0X00
21 RESE	T HLCS		RE	RE	RE	RE	OXFF	OXFF	OXFF	OXFF
		(STM:IC RETURNS 'T' OR 'F')	0X0000	0X0000	<u>  [C</u>	0X0000	OXX00	0X00	0x00	0X00
	<u>'T'? ÎF SO, BRANCH TO SE</u> 'F'? IF SO, BRANCH TO C <i>I</i>		0X0000	0X0000	0X0000	0X0000	0000	0X00 0X00	0x54 0x46	
	P BACK TO LOOKINGFORT		0X0000	0X0000	0X0000					0X00
26 SET F	FRONT PANEL LIGHTS (BI	JTTON GREEN, LED BLUE)	0X0000	0X0000	0X0000		0000	0X00	OXFF	0X00
27 STAR	IT SHEATH BOTTLE FILL		S1	0X0000	0X0000	0X0000	0X32	0X00	0X00	0X00
28 WAIT	FOR STIDLE AND SHEAT	H BOTTLE FULL, OR TIMEOUT	<u> </u>	0X0000	0X0000	0X0000	OXFF	0X00 0X00	0X00	0X00 0X00
	I OFF SHEATH PUMP FOR SO IDLE		S0 0X0000	0X0000 0X0000	000000	000000	OX33 OXFF	0X00	0X00	
31 TEST	SHEATH LOW SENSE CO	NDITION	0X0000	0X0000	000000	0X0000	000	0X00		
32 SHEA	ATH SENSE IS OK, SEND N	MESSAGE TOSM	0X0000	0X0000	0X0000	OX0000	) OX00	0X00	0x00	0x00
33 TFST	SHEATH EMPTY SENSE (	CONDITION	0X0000	0X0000	0X0000	0X000C	OXOO	0X00	0X00	
34 SHEA	ATH SENSE IS LOW, SEND TU CENCE IC EMPTY CEND N	MESSAGE TOSM ACCCACE TOSM DRANCH TO "CLEAD RACK"	0X0000 0X0000	0X0000	000000	0X0000	0000   	0X00	0x00 0x00	
35 SHEAT 36 TELL	<u>ITI DENDE 10 EPILLIT, DEND P</u>	IESSAGE TUSITI, DAVITETT TO CLEAN MACK. SET OP AND SP AT STARTING POSITION	PH	I HC	M1	0X000C		0000	0X00	
37 F 31	FROM STM GOTO WAITU	MESSAGE TOSM MESSAGE TOSM, BRANCH TO "CLEAR RACK" SET CP AND SP AT STARTING POSITION. NTILSTMATIDLE1	0X0000	0X0000		0X000C	OXOO K	0000	0X31	
381 NOK	Kack Endgobkanch		T 0X0000	0X0000	0X0000	OX0000	0000	0X00	0X39	
39 LOOF	P BACK	FOR COATOUR ACTURELLY	0X0000	0X0000	0X0000	000000	) OXOO	0000	0000	
40 WAIT 41 MOVE	UNTILSTMATIDLE 1 (WAIT	FUK SPATULE AS WELLT N /CIDCY THRE ACDIDATE DOCITION!\	0X0000	0X0000 0X0000	0X0000 MN	0X0000	OYOO	OXFF OXOO	0XFF 0X32	
42 RETRI	EVE TUBE NUMBER, TELL H 1 (OXOB).TERM OTHERWIS	N (FIRST TUBE ASPIRATE POSITION) OST WE'RE ALIVE; BRANCH TO END RACK SE	0X0000	0X0000	0X0708	0X000C	0000	0X00	0x0B	
43 KETKI TUBE	E". IE 0 E". IE 0	CT VALUE; BRANCH TO "MOVE TO NEX		0X0000	0X070A				0x00	
441 RETE	RIEVE RACK ID: BRANCH 1	0 "RQ" IF 29	0X0000	0X0000	1 0X0709	0X0000	) ÖXÖÖ	0000	0x1D	
45 RET	RIEVE TUBE ID (BAR COD Sample info from hos	<u> </u>	000000	0X0000		000000		0000	0X00	
46   GETS IFSM	A REPLIES '00', BRANCH	TO "MOVE TO NEXT	0X0000	0X0000	1 00000	T OVOUR	1 - 4,00	0X00	1NV/U	0X00
47 TUBE		TO THE IN THEIR	0X0000	0X0000	000000	0X0000	OX00	0000	0000	) OXOO
_ +			<u> </u>	\	J <u></u> _	I	L	<b>L</b>	L	8A2

300	r <b>a</b>				(	8/4	D			FIG. 8A2
310	312	314	316	318	350	322	324	326 <	328	330
SMTST	TOSM	TVALUE	1 1	SENS	STST	SMSK	END	BRAN	DEST	TRANSLATED PARAMETERS
10 <u>X0000</u>	0	0X0007	0X43	0X0032	0X01	0X03	0X0000	0X0101	0X5738	0X01, 0X03, 0X0000, 0X0101, 0X5738},
0 <u>X0000</u>	0	0X0008	0X44	0X0000	0X00	0X00	OXCE4E	0X0000	0X0000	0X00, 0X00, 0XCE4E, 0X0000, 0X0000},
10 <u>X0000</u>	0	0x0000	0x00	0x0000	0x00	0x00	0x0002	0x0000	0X0000	0x00, 0x00, 0x0002, 0x0000, 0x0000},
10 <u>X0000</u>	0	0x0005 0X0000	0x42	0x0033 0X0000	0x01 0X00	0x01	0X8303	0X0000	0X0000	0x01, 0x01, 0X8303, 0X0000, 0X0000},
00000X0 00000X0	0	0X0000	0x00 0X00	0X0000	0X00	0X00 0X00	0X0002 0x0002	0X0000	0X0000 0X0000	0X00, 0X00, 0X0002, 0X0000, 0X0000}, 0X00, 0X00, 0x0002, 0X0000, 0X0000},
0X0000	Ŏ	0X0000	0X00	0X0032	0x00	0x80	0X8001	0X00001	8	0x00, 0x80, 0X8001, 0X0001, 8},
0X0000	0x1F	0x0000	0x00	0X0000	0x00	0x00	0x0000	0x0101	11	0x00, 0x00, 0x0000, 0x0101, 11},
0000XO	0	0X0000	0X00	0X0032	0x00	0x40	0X8001	0X0001	10	0x00, 0x40, 0X8001, 0X0001, 10},
	0x20	0x0000	0x00	0X0000	0x00	0x00	0x0000	0x0101	11	0x00, 0x00, 0x0000, 0x0101, 11}.
10X0000	0x21	0x0000	0x00	0X0000	0x00	0x00	0x0000	0x0101	0x3045	0x00, 0x00, 0x0000, 0x0101, 0x3045,
0 <u>00000</u>	0	0x0009	0x44	0X0000	0000	0000	0X005F	0X0000	000000	0X00, 0X00, 0X005F, 0X0000, 0X0000},
0 <u>00000</u>	0	0X0000	0X00	0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000},
0 <u>00000</u>	0	0X0000	0X00	0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000},
100000	Ŏ.	0X0000	OXOO	0X0000	0000	0000	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000},
100000	0	0X0000	0X00	0X6000	0X09	0X00	0x0101	0X0000	0X0000	0X09, 0X00, 0x0101, 0X0000, 0X0000},
lo <u>xoooo</u>	0	0x000E	0x44	OX0000	0X00	0X00	0X001F	0X0000	0X0000	OXOO, OXOO, OXOO1F, OXOOOO, OXOOOO),
10 <u>X0000</u>	Ö	0X0000	OXXX	0X000X	0X00	0X00	0X0000	0x0101	42	0X00, 0X00, 0X0000, 0x0101, 42},
00000		0X0000	OXOO	0x6001	0x11	ÖXÖÖ	0X0101	0X0000	0X0000	0x11, 0x00, 0x0101, 0x0000, 0x0000},
0X3044	0	0x000F	0x44	0x6001	0x11	0X00	0X001F	0X0000	0X0000	0x11, 0X00, 0X001F, 0X0000, 0X0000).
0X3030	0	0X0000	0X00	0X0000	0X00	0000	0X0101	0X0020	98	0X00, 0X00, 0X0101, 0X0020, 98}.
10X0000	Ŏ	0X0010	0x44	0x6000	0x11	0000	OXCA4A	0X0000	0X0000	0x11, 0X00, 0XCA4A, 0X0000, 0X0000}.
10X0000	0	0X0000	0000	0X0000	0X00	0X00	0x0101	0X0000	0X0000	0X00, 0X00, 0x0101, 0X0000, 0X0000).
10X0000	0	0X0000	0000	0X0000	0X00	0X00	0x0101	0x0008	26	0X00, 0X00, 0x0101, 0x0008, 26},
10 <u>X0000</u>	. 0	0X0000	0X00	0X0000	0X00	0X00	0x0101	0x0008	98	0X00, 0X00, 0x0101, 0x0008, 98}
10 <u>X0000</u>	0	0X0000	0000	0x0000	0 <u>000</u>	0000	0x0000	0x0101	23	0x00, 0X00, 0x0000, 0x0101, 23},
0 <u>00000</u>	0	0X0000	0X00	0X6000	0X09	0000	0X005F	0X0000	0X0000	0X09, 0X00, 0X005F, 0X0000, 0X0000},
0 <u>00000</u>	0	0x0000	0x00	0x0000	0x00	0x00	0x0002	0x0000	0X0000	0x00, 0x00, 0x0002, 0x0000, 0X0000},
0 <u>00000</u>	0	0x0005	0x42	0x0033	0x01	0x01	0X8303	0X0000	0X0000	0x01, 0x01, 0X8303, 0X0000, 0X0000},
0X0000	0	0X0000 0X0000	0x00 0X00	0X0000 0X0000	0X00 0X00	0X00	0X0002 0x0002	0X0000 0X0000	0X0000 0X0000	0X00, 0X00, 0X0002, 0X0000, 0X0000}, 0X00, 0X00, 0x0002, 0X0000, 0X0000}.
0X0000			0000	00000	0000	080	0X0002 0X8001	0X0000	33	
000000		0x0000	0x00	0X0000	0x00	0x00	0x0000	0x0101	36	
0 <u>00000</u>	0	0X0000	ÖXÖÖ	0X0032	<u> </u>	0x40	0X8001	0X0001	35	
0X0000		0x0000	0x00	0X0000	0x00	0x00	0x0000	0x0101	36	
10 <u>x0000</u>	0x21	0x0000	0x00	0X0000	0x00	0x00	0x0000	0x0101	0x3045	0x00, 0x00, 0x0000, 0x0101, 0x3045},
10 <u>X0000</u>	0	0X0000	0X00	0X0000	0X00	0X00	0X0101	0X0000	0X0000	0X00, 0X00, 0X0101, 0X0000, 0X0000},
0 <u>00000</u>	0	0X0000	0X00	0X0000	0X00	0X00	0X0101	0X0008	40	0X00, 0X00, 0X0101, 0X0008, 40},
0 <u>00000</u>	0	OX0000	0X00	0X0000	0X00	0X00	0X0101	0X0008	94	0X00, 0X00, 0X0101, 0X0008, 94},
10 <u>X0000</u>	Ŏ	OX0000	0X00	0X0000	0X00	0X00	0X001F	0X0101	37	0X00, 0X00, 0X001F, 0X0101, 37},
10 <u>X0000</u>	0.20	0x0011	0x44	0X0000	0000	OXXX	0x8E0E	000000	0X0000	0000, 0000, 00000, 000000, 000000),
0 <u>X0000</u>		0x0012	0x44	0X0000	0X00	0X00	0X001F	000000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000);
INVOOR	JUX3Z	0x0013	0x44	0X0000	0X00	0X00	0X0101	0X0008_	81	OXOO, OXOO, OXO101, OXOOO8, 81},
0 <u>X0000</u>	0	0x0014	0x44	0X0000	0X00	0X00	0X0101	0X0008	41	0X00, 0X00, 0X0101, 0X0008, 41},
100000	1	0.0015	0.44	070000	0,000	0700	070101	0,0000	0.5254	0,000 0,000 0,000 0.0000 0.0000
0 <u>00000</u>	0	0x0015 0x0016	0x44 0x44	0X0000 0X0000	0X00 0X00	0X00 0X00	0X0101 0X0101	0x0008 0X0000	0x5251 0X0000	0X00, 0X00, 0X0101, 0x0008, 0x5251}, 0X00, 0X00, 0X0101, 0X0000, 0X00000},
0X3032		0x0016	0x44 0x44	0X0000	0X00	0000	0X0101 0X001F	000000		0X00, 0X00, 0X001F, 0X0000, 0X0000), 0X00000),
1				-					0X0000	,
0 <u>X3030</u>	0	0X0000	0X00	0X0000	0X00	0X00	0X0101	0X0020	41	0X00, 0X00, 0X0101, 0X0020, 41},
8A1	<del></del> -		~ — —		- \ 8E	32				

STATE   STATE DESCRIPTION	SPACMD	FBACMD	STMCMD	OBACMD	SPASTAT	FBASTAT	STMSTAT	OBASTAT
INDEX   48 IF SM REPLIES '-2', BRANCH TO "OE" (CLEAR RACK)	0X0000	000000	T0X0000	00000	0000	0000	0X00	- <u>0x00</u> ¦
491 TO TEST TURE (INITIALIZE EP PLIMP)	П	0X0000	0X0000	000000	0x11	0x00	000	OXOO I
50 WAIT FOR TT COMPLETE	0X0000	0X0000	0X0000	0X0000	OxFF	0x00		0X00
51 WAIT FOR "IMAGE PROCESSING IDLE" 52 START SHEATH FOR BACKGROUND CAPTURE	<u> </u>	000000	0X0000 0X0000	0X0000 0X0000	0x00	0x00	OXOO	0X00
52  STAKT SHEATH FOR BACKGROUND CAPTURE 53  WAIT FOR SB COMPLETE	SB 0X0000	0X0000 0X0000	0X0000	000000	0x31 0xFF	0X00 0x00		0X00
541 TIMER DELAY REEDRE CAPTURE	UXUUUU	000000	0X0000	0X0000 0X0000	0x00	0x00		0x00 ¦
CAPTURE BACKGROUND AND WAIT FOR FRAME PROCESSING COMPLETE	- V.10000		1	0.1000		9//50		
(FUTURE WAIT FOR FRAME CAPTURE COMPLETE) OR	070000	040000		0,000				!
CAPTURE BACKGROUND AND WAIT FOR FRAME PROCESSING COMPLETE (FUTURE WAIT FOR FRAME CAPTURE COMPLETE) OR 55 SHORT SAMPLE DETECTOR. SEND 'SHORT SAMPLE' SIGNAL AND WAIT FOR FRAME PROCESSING COMPLETE	0X0000	0X0000	0X0000	OX00000	0x00	0x00	0x00	0x00 ¦
(FUTURE WAIT FOR FRAME CAPTURE COMPLETE). IF EXCEEDS 10 SECS								
FAIL - GOTO BX	000000	OXOOOO	0x0000	0X0000	0x00	0x00	0x00	i
56   `- GOTO BX. 57   Turn off Ep Pump on Spa	EB	000000	000000	0X0000	0x34	0x00		0000 i
58   WAIT FOR EB COMPLETE	OX0000	0X0000	0X0000	0X0000	0xFF	0x00	0000	0X00
59 MOVE PIPETTE DOWN TO ASPIRATE POSITION IN TEST TUBE	TD	0X0000	0X0000	0X0000	0X13	0x00		0X00 i
60 WAIT FOR TO COMPLETE AND "IMAGE PROCESSING IDLE" 61 START ASPIRATION FOR SAMPLE TRANSFER	0X00000 AS	0X0000   RC	0X0000 0X0000	0X0000	OxFF Ox17	0x00 0x00		0X00 1
61 START ASPIRATION FOR SAMPLE TRANSFER	00000X0	0X0000	000000	0X000X	Ox17 OxFF	OxFF		0X00
62   WAIT FOR AS AND RC COMPLETE 63   TIMER DELAY BEFORE CAPTURE	0X0000	000000	000000	000000	0x00	0x00		0x00
CAPTURE SAMPLE FRAMES AND WAIT FOR SAMPLE 64 FRAME CAPTURE COMPLETE OR SHORT SAMPLE DETECTOR.								i
64   FRAME CAPTURE COMPLETE OR SHORT SAMPLE DETECTOR.	0X00000	OX0000	0X0000	0X0000	0x00	0X00	0000	<u>0X00</u>
SEND "SHORT SAMPLE" SIGNAL AND WATT FOR 65 SAMPLE FRAME CAPTURE COMPLETE	0X0000	OX0000	0X00000	0X0000	0x00	0000	0000	0000
66 TURN OFF EP PUMP ON SPA, SP PUMP ON FBA	EB	EB	0X000X	0X0000	0x00 0x34	0x00		0000
67 WAIT FOR EB'S COMPLETE (SPA AND FBA)	0X0000	0X0000	0X0000	0X0000	OxFF	OxFF		0X00
68 TO WASTE WELL	TW	DB	0X0000	000000	0x15	0x00	0X00	0X00 !
69	0X0000	0X0000	000000	0X0000	OxFF	0x00		0X00
70 71 TEST SHEATH FULL SENSOR	0X0000	0X0000	0X0000	0X0000	0x00	OxFF	0000	0X00 I
71 TIEST STEATH FULL SENSUN 72 TURN ON RINSE PUMP AND RINSE PIPETTER	0X0000 TR	0X0000 RP	0X0000 0X0000	0X0000 0X0000	0X00 0X00	0x00 0x25		0X00 I
73 TURN ON RINSE PUMP AND RINSE PIPETTER	TO TO	TRP T	0X0000	0X0000	0X00	0x25		1 0000 ¦
74 .	0X0000	0X0000	0X0000	0X0000	OxFF	0x00		0X00
75	0X0000	0X0000	0X0000	1 0X0000	1 0x00	0xFF	0000	0X00 i
76 CLEAR PIPETTER/HOME CP AND SP/MOVE TO NEXT TUBE	(P	HC	MN	0X0000	0X16	0X00		OXOO
77 78	0X0000 0X0000	0X0000	0X0000	0X0000 0X0000	OXFF Ox00	0x00 0xFF		0X00 0X00
79	0X0000	0X0000	0X0000	000000	0x00	0x00		<del>  0000</del>
80   SEND COMPLETION SIGNAL TO HOST, BRANCH TO "RETRIEVE TUBE NUMBER"	0X0000	000000	0X0000	0X0000	0000	0X00	0000	
81 END RACK BRANCH TARGET	000000	_0X00000	0X0000	OX0000	0000	OXFF	0000	OXO0_
82	0X0000	0X0000	0X0000	0X0000	OX00	0X00		0X00
83   EIFCT RACK 84   LOOP TO PH1	0X0000 0X0000	0X0000	ER 0X0000	0X0000	0X00 0X00	0X00		0X00 1
85   START SHEATH BOTTLE FILL	SI	T0X0000	000000	0X0000	0X32	0000		0000
86 I WAIT FOR S1 IDLE AND SHEATH BOTTLE FULL. OR TIMEOUT	0X0000	0X0000	000000	0X0000	OXFF	OXXO		
87 TURN OFF SHEATH PUMP	SO	0X0000	0X0000	0X0000	0X33	0000	) OXO	0X00 I
88 WAIT FOR SO IDLE	000000	0X00000	0X00000	0X0000	OXFF	0000		
89 TEST SHEATH LOW SENSE CONDITION 90 SHEATH SENSE IS OK, SEND MESSAGE TOSM	0X0000 0X0000	0X0000 0X0000	0X0000	0X0000 0X0000	00X0 00X0	0x00 0x00		0X00 0x00
911 TEST SHEATH EMPTY SENSE CONDITION	0X0000	000000	0X0000	0X0000	0000			
92   SHEATH SENSE IS LOW, SEND MESSAGE TOSM	000000	000000	0X0000	0X0000	OXOO			0x00
I SHEATH SENSE IS EMPTY, SEND MESSAGE TOSM.			1					
93 BRANCH TO "CLEAR RACK"  SET SP AND CP AT PINCHED STANDBY POSITION,	0X0000	0X0000	0X00000	_0X0000	OX00	0x00	0x00	0x00_
94   ENDGOBRANCHTARGET:MAKE SURE SPA AND STM IDLE	0x0000	l <sub>HS</sub>	0X0000	000000	OxFF	0X21	OXFF	0,000
95   BRANCH TO END OF GO SEQUENCE	000000	0X0000	000000	0X0000	0000			0X00 0X00
96 SUBR: MOVE NEXT	0X0000	000000	IMN	000000	0000	0X00		0000
	L	L	<del>                                     </del>	<u> </u>	L			li
↓8C1								8B2 '

SANTEST   TOSM	L						<u> </u>				110.006
0,0000	SMTST	TOSM	TVALUE	TFUNC	SENS	STST	SMSK	END	BRAN	DEST	TRANSLATED PARAMETERS
	<u>0X2D32</u>										
March   Marc											
		0									
									0X0000		
033034   0331   070019   0443   040000   0400   0400   04001   040010   040010   057   0400, 0402, 040010, 060010, 057],     033034   0331   070019   0443   040000   0400   04000   040010   040000   04002, 040001, 060010, 057],     033034   0331   070019   0443   040000   0400   04000   04000   040000   040000   040000   040000   040000   040000   040000   040000   040000   040000   040000   040000   04000											
0X3034 0X33 0X0000 0x00 0x000 0x000 0x00 0x00	0X0000	0	0X0000								
03334 0.31 0X0019 0.43 0x0000 0x00 0x00 0X001 0x0000 0x4258 0x00, 0x00, 0x0010, 0x0000, 0x4258], 0x0000 0 0X00000 0X00 0X000 0X00 0X000 0X00 0X00 0X00 0X00 0X00000, 0x00000, 0x000000, 0x000000 0X00 0X	0X0000	U	000018	UX42	000000	<u> 0x00</u>	000	000000	0x0000	000000	0x00, 0x00, 0x0000, 0x0000, 0x00000},
0.0000	<u>0X3034</u>	OX83	0x0000	0x00	0x0032	0x00	0x02	0x0001	0x0010	57	0x00, 0x02, 0x0001, 0x0010, 57},
000000 0 000000 0000 0000 0000 0000 0000	0X3034	0x31	0X0019	0x43	0x0000	0x00	0x00	0X0010	0x0000	0x4258	0x00, 0x00, 0X0010, 0x0000, 0x4258},
000000	000000	0	000000	0X00	0X0000	0X00	0X00	0x001F	0X0000	0X0000	0X00, 0X00, 0x001F, 0X0000, 0X0000),
0.00000		0	0X0000	0X00	0X0000		0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000),
0   0   0   0   0   0   0   0   0   0		0	OX0000	_0X00	0X0000	OX00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000),
000000											0X00, 0X00, 0x9212, 0X0000, 0X0000},
0X0000											
0X3036 0X85 0x000 0x00 0x00 0x00 0x00 0x00 0x00 0											
0X3036 0x31 0x0063 0x43 0x0000 0x00 0x00 0x00 0x0000 0x0000 0x00, 0x00, 0x00, 0x00, 0x000, 0x0000, 0x000, 0x000, 0x0000, 0x000, 0x000, 0x000, 0x000, 0x000, 0x0000, 0x0000, 0x000	00000X0_1	- 0	10X0062	0x42	OX0000_	0x00	0x00	0X0000	0x0000	0X0000	0x00, 0x00, 0x0000, 0x0000, 0x00000},
0x0000	0X3036	0X85	0x0000	0x00	0x0032	0X00	0x02	0x0001	0x0010	66	0X00, 0x02, 0x0001, 0x0010, 66},
Oxford   O				0x43	0X0000				000000	0X4258	0X00, 0X00, 0X0010, 0X0000, 0X4258},
000000											
0x0000					000000				00000	000000	[ UXUU, UXUU, UX86Ub, UXUUUU, UXUUUU],   OYOO OYOO OYOOTE OYOOOO OYOOOOY
\( \begin{array}{c c c c c c c c c c c c c c c c c c c		<u> </u>									
0x0000		· · · · · ·									
0x0000											0x00, 0x00, 0x0011, 0x0000, 0x00007, 0x00007, 0x00007, 0x001 0x0101 0x0101 73\
0x0000											0000 0000 00000 000015 743
0X0000											
0X0000	0X0000	Ď	0X0000	0X00	0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000},
0X0000			10X0000						1000000	1 0X0000	[ 0X00, 0X00, 0X001F, 0X0000, 0X0000],
OXOOOO											
0X0000											
0x0000											Taylor allor allorif allored allored
0X0000											
0X0000		1 0X0/ 0X2F									
0X0000											
OXO000									000000		
OXOOOO										27	
0X0000									0x0000	0X0000	
0X0000		<del></del>	0x0005	0x42					0X0000	0X0000	
0X0000	DOCOUTO		Loxonon	0x00	000000	0000	0000				0X00 0X00 0X0002 0X0000 0X0000)
0X0000	000000	0								0X0000	
0X0000										1	
0X0000				0x00							
0X0000				1 0X00							1 0x00, 0x40, 0x8001, 0x0001, 93},
0X0000	1 0X0000	0x20	_10x0000	UX00	0x0000_	0x00	UX00	0x0000	10x0101	94	UXUU, UXUU, UXUUUU, UXUTUT, 94},
0X0000	0X0000	0x21	0x0000	0x00	0X0000	0x00	0x00	0x0000	0x0101	0x3045	0x00, 0x00, 0x0000, 0x0101, 0x3045},
0X0000 0x36 0X001F 0x44 0X0000 0X00 0X00 0X001F 0X0000 0X000 0X00, 0X00, 0X001F, 0X0000, 0X000),											
	<u></u>	<u> </u>	TOYOOJE	<u> </u>		T n <u>xnn</u>	T 0Y00	1 0x001F	Tox0000	T0Y0000	1 0 <u>v00' 0v00' 0v001'' 0v0000' 0v0000</u> }'

STATE I <u>NDE</u> X	STATE DESCRIPTION	SPACMD	FBACMD	STMCMD	OBACMD	SPASTAT	FBASTAT	STMSTAT	OBASTAT
97 98	END SUBR: BRANCH TO WAITUNTILSTMATIDLE 1	0X0000	0X0000	0X0000	0X0000	0X00	OX00	0X00	00XO
98	COULDN'T GO; FLASH RFD BUTTON FOR 5 SECONDS	0X0000 0X0000	0X0000 0X0000	0X0000	0X0000	0x00 0X00	0x00 0X00	0x00 0X00	0x00 0X00
100	END OF GO SEQUENCE BEGIN OF "OE" TO EAR RACKS): FULL STOP SEND OR TO STM; HOME PIPETTER	ŘĚ	LRE	RE	0X0000	OXFE	ÖXFF	LÖXFF	L0X00i
101	SEND CR TO STM; HOME PIPETTER	PH	0X0000	CR	0X0000	0000	0000	0X33	0000
102 103	HUME SIM CAKKIEKS  END OF "OF" // I FAR RACKS\	0X0000 0X0000	0X0000 0X0000	0x0000 0X0000	0X0000 0X0000	OXFF OXOO	0X00	OXFF OXOO	0X00 0X00
104	BEGIN OF "RQ" (RUN QC CONTROL)	RE	I RE	RE	000000	OXFF	OXFF	OXFF	0000
105	SEND CK TO STM; HOWE PIPETTER  HOME STM CARRIERS  END OF "OE" (CLEAR RACKS)  BEGIN OF "RQ" (RUN QC CONTROL)  RETRIEVE TUBE NUMBER; BRANCH TO WASH ("WA") IF 1 (0X01),  TERM OTHERWISE  RETRIEVE TUBE NUMBER; BRANCH TO DILUENT ("DL") IF 2 (0X02), TERM OTHERWISE  RETRIEVE TUBE NUMBER; BRANCH TO DILUENT ("DL") IF 3 (0X03), TERM OTHERWISE	0X0000	0X0000	0X0708	0X0000	0X00	0X00	0x01	0X00
106	RETRIEVE TUBE NUMBER; BRANCH TO DILUENT ("DL") IF 2	0X0000	0X0000	OX0708	0X0000	0000	0000	0x02	0X00 ¦
107	RETRIEVE TUBE NUMBER; BRANCH TO DILUENT ("DL") IF 3 (0X03), TFRM OTHERWISE	000000	0X0000	0X0708	0X0000	0000	0X00	0x03	0000
- 1	RETRIÉVE TUBE NUMBER; BRANCH TO AUTOFOCUS ("17") IF 5 (0X05), TERM OTHERWISE RETRIÉVE TUBE NUMBER; BRANCH TO DILUENT ("DL") IF 10								
108	(OXOS), TERM OTHERWISE	0X0000	0X0000	0X0708	0X0000	0000	0X00	0x05	0X00
109	RETRIEVE TUBE NO BAR CODE)	0X0000 0X0000	0X0000 0X0000	0X0708 0X0707	0X0000	0X00 0X00	0X00 0X00	0x0A 0X00	0X00
İİİ	GET SAMPLE INFO FROM HOST	ÖXÖÖÖÖ	ÖXÖÖÖÖ	0X0000	0X0000	OXOO	ÖXÖÖ	OXOO	OXOO
	IF SM REPLIES '00', BRANCH TO "MOVE TO NEXT CONTROL TU				<b> </b>				
112 113	POSITION"	0X0000	0X0000 0X0000	0X0000	0X0000 0X0000	0X00 0X00	0X00 0X00	0X00 0X00	0X00 0X00
114	IF SM REPLIES '-2', BRANCH TO "OE" (CLEAR RACK) TO TEST TUBE	0X0000	0X0000	0X0000 0X0000	1 0X0000	0x11	0x00	0X00	0X00 I
115		0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000 0X0000	ÖxFF 0x00	0x00 0x00	ÖXÖÖ ÖXÖÖ	0X00 0X00
116	WAIT FOR "IMAGE PROCESSING IDLE"	<u>0X0000</u>	0X0000	0X0000	0X0000	0x00	0x00	1 0X00	10000 I
117 118	START SHEATH FOR BACKGROUND CAPTURE WALLFOR SHOWN I FLE	SB OXOOOO	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0x31 0xFF	0X00 0x00	0X00 0X00	0X00 0X00
119	WAIT FÖR SB COMPLETE TIMER DELAY BEFORE CAPTURE	UNUUNU	0X0000	0X0000	0X0000	0x00	·0x00	0x00	0x00
120	CAPTURE BACKGROUND AND WAIT FOR FRAME PROCESSING COMPLETE (FUTURE WAIT FOR FRAME CAPTURE COMPLETE) OR SHORT SAMPLE DETECTOR. SEND "SHORT SAMPLE" SIGNAL AND WAIT FOR FRAME PROCESSING COMPLETE (FUTURE WAIT FOR FRAME CAPTURE COMPLETE). IF	0X0000	0X0000	0X0000	0X0000	0x00	0x00	0x00	0x00
121	FXCFFDS 10 SFCS - GOTO BX.	I 0X0000	0X0000	000000	0X0000	0x00	0x00	0x00	0x00 ¦
122	TURN OFF EP PUMP ON SPA Wait for eb complete	EB	000000	0X0000	0X0000	0x34	0x00	0000	0X00
123 124	MOVE PIPETTE DOWN TO ASPIRATE POSITION IN TEST TUBE	0X0000 TD	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0xFF 0X13	0x00 0x00	0X00 0X00	0X00 0X00
125	WAIT FOR TO COMPLETE AND "IMAGE PROCESSING IDLE"	0X0000	000000	000000	000000	0xFF	0x00	I ÖXÖÖ	<del>TŎXŎŎ </del> !
1261	START ASPIRATION FOR SAMPLE TRANSFER	AS	T RC	0X0000	000000 T	0x17	0x00	0X00	0X00
127	WAIT FOR AS AND RC COMPLETE	000000	0X0000 0X0000	000000	000000	0xFF	0xFF	0000	0000
128 129	TIMER DELAY BEFORE CAPTURE  CAPTURE SAMPLE FRAMES AND WAIT FOR SAMPLE FRAME CAPTURE COMPLETE OR SHORT SAMPLE DETECTOR.	0X0000 0X0000	0X0000	0X0000	000000	0x00 0x00	0000	0X00 0X00	0X00 0X00
130	SEND "SHORT SAMPLE" SIGNAL AND WAIT FOR SAMPLE FRAME CAPTURE COMPLETE	0X0000	0X0000	0X0000	0X0000	0x00	0000	0000	0X00
131	TURN OFF EP PUMP ON SPA. SP PUMP ON FBA	EB	T EB	OX0000	0X0000	0x34	0x00	0X00	0X00
132	TURN OFF EP PUMP ON SPA, SP PUMP ON FBA WALT FOR EB'S COMPLETE (SPA AND FBA)	0X0000	0X0000	000000	0X0000 0X0000	0xFF	0xFF	0X00	0X00
133 134	TO WASTE WELL	TW 0X0000	DB 0X0000	000000	1 0X0000 1 0X0000	0x15 0xFF	0x00 0x00	0X00 0X00	0X00 0X00
1351		000000	000000	0X0000 0X0000	0X0000 0X0000	0x00	ÖxFF	0X00	T0X00 i
1361	TURN ON RINSE PUMP AND RINSE PIPETTER	TR	I RP.	I 0X0000	1 0X0000	0X00	0x25	0X00	1 00X0 i
137		0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X0000	0xFF 0x00	0x00 0xFF	0X00 0X00	0X00 0X00
1 <u>38</u> 1 <u>39</u>	CLEAR PIPETTER/HOME CP AND SP	(P	T HC	0x0000	0X0000	0X16	0X00	0000	T0X00 !
149		0X0000	0X0000	0X0000 0X0000	0X0000 0X0000	ÖXFF Ox00	0x00	ÖXÖÖ ÖXÖÖ	ÖXÖÖ ÖXÖÖ
141		0X0000	0X0000	1 0X0000	1 0X0000	0x00	OxFF	OXOO	10X00
142 143	SEND COMPLETION SIGNAL TO HOST	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0x00 0X00	0x00 0X00	OXFF OXOO	0X00 I
144	WAIT FOR CONTBOL RESULT FROM HOST; BRANCH TO "OE" (CLEAR RACK IF FAILED (O)	0X0000	0X0000	0X00000	0X0000	0X00	OXOO	0X00	OXOO i
		L	<del> </del>	<del> </del>	<del></del>	1	<u> </u>	<del></del> _	اٰسِیاٰ
	↓8D1							,	8C2 '

SMTST	TOSM	TVALUE	TFUNC	SENS	STST	SMSK	END	BRAN	DEST	TRANSLATED PARAMETERS
0X0000	$-\frac{1}{0}$	0X0000	0 <u>x</u> 00	0X0000	<u>0</u> 000	0X00	<u>000000</u>	0X0101	$-\frac{1}{40}$	
0X0000 0X0000	0	0x0181 0X0000	0x02 0X00	0x6001 0X0000	0x12 0X00	0x00 0X00	0X0000 0X001F	0x0000 0X0000	0X0000 0X0000	0x12, 0x00, 0X0000, 0x0000, 0X0000}, 0X00, 0X00, 0X001F, 0X0000, 0X0000},
1_0X0000	Ox2F	10X0020	0x44	0X0000	0X00	0X00	OX8E0E	T0X0000	OX0000	OXOO, OXOO, OX8EOE, OXOOOO, OXOOOO},
0X0000 0X0000	0	0X0021 0X0022	0x44 0x44	0X0000	0X00 0X00	0X00 0X00	0X001F 0X8A0A	0X0000 0X0000	0X0000 0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000Y, 0X00, 0X00, 0X8A0A, 0X0000, 0X0000Y,
0X0000	Ŏ	0X0000	0X00	0X0000	0X00	0X00	0X001F	0X0000	0X0000	[ 0X00, 0X00, 0X001F, 0X0000, 0X0000},
0X0000	0	0X0023	0x44	0X0000	0X00	0X00	OX8E0E	0X0000	0X0000	0X00, 0X00, 0X8E0E, 0X0000, 0X0000),
0X0000	0	0X0024	0x44_	0X0000	0X00	0X00	0X0101	0X0008	0x5741	0X00, 0X00, 0X0101, 0X0008, 0x5741},
0X0000	0	0X0025	0x44	0X0000	0X00	0X00	0X0101	0X0008	0x444C	<u>0X00, 0X00, 0X0101, 0X0008, 0x444C},</u>
0X0000	0	0X0026	0x44	0X0000	0X00	0X00	0X0101	0X0008	0x444C	0X00, 0X00, 0X0101, 0X0008, 0x444C},
0X0000		0X0027	0x44	0X0000	0X00	0000	0X0101	0X0008	0x3137	0X00, 0X00, 0X0101, 0X0008, 0x3137},
-0X0000 -0X0000	0	0X0028 10X0029	0x44 0x44	0X0000 0X0000	0X00 0X00	0X00 0X00	0X0101 0X0101	0X0008 0X0000	0x444C 0X0000	0X00, 0X00, 0X0101, 0X0008, 0x444C}, 0X00, 0X00, 0X0101, 0X0000, 0X0000},
0X3032	0X81	0X002A	0x44	0X0000	ÖXÖÖ	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000).
0X3030	0	000000	0000	0X0000	_0X00	0X00	0X0101	0X0020	146	0X00, 0X00, 0X0101, 0X0020, 146},
0X2D32 0X0000	0	0X0000 0X0000	0X00	0X0000 0X0000	0X00 0X00	0X00 0X00	0X0101 0X001F	0X0020 0X0000	0x3045 0X0000	0X00, 0X00, 0X0101, 0X0020, 0x3045}, 0X00, 0X00, 0X001F, 0X0000, 0X0000},
1_0X0000	0	10X0000	0X00	0X0000	0X00	0X00	0X001F	0X0000	00000X	1 OXOO, OXOO, OXOO1F, OXOOOO, OXOOOO).
0x3338 0X0000	0x37	0X0000 0X0000	0x00 0X00	0X0000 0X0000	0X00 0X00	0X00 0X00	0X001F 0x001F	0X0000	0X0000 0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000},   0X00, 0X00, 0x001F, 0X0000, 0X0000}.
0X0000	Ŏ	0000X0	0X00	0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X00005.
OX0000	0	0X0069	0x42	0X0000	0x00	0x00	0X0000	0x0000	0X0000	0x00, 0x00, 0X0000, 0x0000, 0X0000),
0X3034	0X83	0x0000	0x00	0x0032	0x00	0x02	0x0001	0x0010	122	0x00, 0x02, 0x0001, 0x0010, 122},
I <u>0X3034</u>	0x31	0X006A	0x43	0x0000	0x00	0x00	0X0010	0x0000	0x4258	0x00, 0x00, 0X0010, 0x0000, 0x4258}.
0X0000	0	0X0000 0X0000	0X00 0X00	0X0000 0X0000	0X00 0X00	0X00 0X00	0x001F 0X001F	0X0000 0X0000	0X0000 0X0000	0X00, 0X00, 0x001F, 0X0000, 0X0000},   0X00, 0X00, 0X001F, 0X0000, 0X0000},
; 0X0000	0	10X0000	0000	0X0000	0X00	0X00	0X001F	1 0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000}, 0X00, 0X00, 0X001F, 0X0000, 0X0000}, 0X00, 0X00, 0x9212, 0X0000, 0X0000},
0x3338 0X0000	10x37 0	0X0000 0X0000	0X00 0X00	0X0000 0X0000	0X00 0X00	0X00 0X00	0x9212 0X001F	0X0000 0X0000	0X0000 0X0000	0X00, 0X00, 0x9212, 0X0000, 0X0000},   0X00, 0X00, 0X001F, 0X0000, 0X0000},
1 0X0000	1 0	T0X0000	0X00	1 0X0000	0X00 <sup>-</sup>	0X00	0x8606	1 0X0000	0X0000	L 0X00, 0X00, 0x8606, 0X0000, 0X00003.
0X0000		0X006B		0X0000	0x00	0x00	0X0000	0x0000	0X0000	0x00, 0x00, 0x00000, 0x00000, 0x00000},
i_0X3036	0X85	0x0000	0x00	0x0032	0X00	0x02	0x0001	0x0010	131	0X00, 0x02, 0x0001, 0x0010, 131},
1-0X3036 0X0000	0x31	0X006C	0x43 0X00	0X0000 0X0000	0X00 0X00	0X00 0X00	0X0010 0X001F	0X0000 0X0000	0X4258 0X0000	0X00, 0X00, 0X0010, 0X0000, 0X4258}, 0X00, 0X00, 0X001F, 0X0000, 0X0000
0X0000 0X0000	0	0X0000 0X0000	0X00 0X00	0X0000	0X00	0X00	0X8606	0X0000	0X0000	0X00, 0X00, 0X8606, 0X0000, 0X0000},
0X0000	0	0X0000	1 0X00	0X0000	0X00	0X00 0X00	0X001F 0X001F	0X0000	0X000X 0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000};   0X00, 0X00, 0X001F, 0X0000, 0X0000};
1_0X0000 1_0X0000	0	0X0000	0X00	0X0000	0X00 0X00	0X00 0X00	0X001F 0X001F	0X0000	000000	0000, 0000, 00001E 000000, 0000001
0X0000	0	0X0000	0X00	0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X00001, 0X00, 0X00, 0X001F, 0X0000, 0X00001, 0X00, 0X00, 0X001F, 0X0000, 0X00001,
_0X0000	0	0X0000 0X0000	0X00 0X00	0X0000 0X0000	0X00 0X00	0X00 0X00	0X001F 0X001F	0X0000 0X0000	0X0000 0X0000	0X00, 0X00, 0X001E 0X0000, 0X00005, 0X00, 0X00, 0X001E 0X0000, 0X00005,
i_0X0000	1 0	OX0000	0000	0X0000	0X00	0000	0X001F	0X0000	L0X0000	OXOO, OXOO, OXOO1E OXOOOO, OXOOOO?
0X0000	0	0X0000 0X0000	0X00 0X00	0X0000 0X0000	0X00 0X00	0X00 0X00	0X001F 0X001F	0X0000 0X0000	0X0000 0X0000	0X00', 0X00', 0X001F, 0X0000', 0X0000\};   0X00, 0X00', 0X001F, 0X0000, 0X0000\};
0x0000	0X87	0X0000	0X00	0X0000	OX00	0X00	0x0101	0x0000	1 0x0000	1_0X00, 0X00, 0x0101, 0x0000, 0x0000),
0x3245	0	0X002C	0x44	0X0000	0X00	0X00	0x001F ·	0X0000	0X0000	0X00, 0X00, 0x001F, 0X0000, 0X0000)
18C1					_ 180	)2				

<sup>1</sup>8C1

STATE	STATE DESCRIPTION	SPACMD	FBACMD	STMCMD	OBACMD	SPASTAT	FBASTAT	STMSTAT	OBASTAT
145	IF SM REPLIES '0', BRANCH TO "OE" (CLEAR RACK)	0X0000	0x0000	0x0000	0x0000		0X00	OXO0 -	0X00
146	MOVE TO NEXT CONTROL TUBE POSITION	0X0000	0X0000	MN	0X0000	0X00	0X00	0X32	OXOO
i 47	BRANCH TO "16" (GO RESUME)	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
148	END OF RQ SEQUENCE	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
149	BEGIN "17" (AUTOFOCUS CONTROL); RESET HLCS	RE	RE	RE	0X0000	ÖXFF	OXFF	OXFF	0X00
150	RETRIEVE CONTROL ID (BAR CODE)	0X0000	0X0000	0X0707	0X0000	0X00	0X00	0X00	0X00
151	GET SAMPLE INFO FROM HOST	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
152	IF SM REPLIES '00', BRANCH TO "MOVE TO NEXT	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	OX00
153	IF SM REPLIES '-2', BRANCH TO "OE" (CLEAR RACK)	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	OX00
1 <u>54</u>	RECORD CURRENT AUTOFOCUS POSITION (REQUIRES	0X0000	0X0000	0X0000	HW	0X00	0X00	0X00_	0x31i
1 <u>55</u>	WAIT FOR OBA COMPLETE.	0X0000	0X0000	0X0000	0x0000	0X00	0X00	0X00	0xFF
1 <u>56</u>	RETURN TO AUTOFOCUS POSITION	0X0000	0X0000	0X0000	MO	0X00	0X00	0X00	0x32
1 <u>57</u>	WAIT FOR OBA COMPLETE.	0X0000	0X0000	0X0000	0x0000	0X00	0X00	0X00	0xFF i
1 <u>58</u>	TO TEST TUBE (INITIALIZE EP PUMP)	П	0X0000	0X0000	0X0000	0x11	0x00	0X00	0X00
1 <u>59</u>	WAIT FOR TT COMPLETE	0X0000	0X0000	0X0000	0X0000	0xFF	0x00	0X00	0X00
160	DUMMY STATE (FUTURE WAIT FOR HOST TO VERIFY READY	0X0000	0X0000	0X0000	0X0000	0x00	0x00	0X00	OX00
161	MOVE PIPETTE DOWN TO ASPIRATE POSITION IN TEST	TD	0X0000	0X0000	0X0000	0X13	0x00	0X00	0X00
162	WAIT FOR TO COMPLETE	0X0000	0X0000	0X0000	0X0000	OxFF	0x00	0X00	0X00
1 <u>63</u>	AUTOFOCUSREADYFORCOMMAND: TELL HOST WE'RE	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
164	WAIT FOR AN AUTO FOCUS COMMAND	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
165	SM REPLY = "00"> AUTOFOCUSCLEANUP	OX0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	OX00
166	SM REPLY = "01">	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
167	SM REPLY = "02"> AUTOFOCUSCOARSE	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
168	SM REPLY = "03"> AUTOFOCUSPEAK	0X0000	0X0000	0X0000	0X0000	0X00	0000	0X00	0X00
169	SM REPLY = "04"> AUTOFOCUSCLINICAL	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	OX00 ;
179	SM REPLY = "05"> AUTOFOCUSCLINICAL SM REPLY = "10">	0X0000	0X0000	0X0000	0X0000	0X00	0000	0X00	0X00
171	SM REPLY = "11" -> AUTOFOCUSPEAKFINALOFFSET	0X0000	0X0000	0X0000	0X0000	0X00	0000	0X00	0000
172	SM REPLY = "12" -> AUTOFOCUSCLINICALFINALOFFSET	0X0000	0X0000	0X0000	0X0000	0000	0X00 0X00	0X00	0000
1 <u>73</u> 174	SM REPLY = "20"> AUTOFOCUSEDRWARD1	0X0000 0X0000	0X0000 0X0000	0X0000	0X0000 0X0000	0X00 0X00	0000	0X00 0X00	0X00 0X00
175	SM REPLY = "21"> AUTOFOCUSFORWARD2	0X0000	0X0000	0X0000	0X0000	0000	0000	0X00	0X00
176	SM REPLY = "22"> AUTOFOCUSFORWARD4	0X0000	0X0000	0X0000	0X0000	0000	0000	0000	0X00
177	SM REPLY = "23"> AUTOFOCUSFORWARD8	0X0000	0X0000	0X0000	0X0000	0000	0X00	0X00	0X00
178	SM REPLY = "24"> AUTOFOCUSFORWARD16	0X0000	0X0000	0X0000	0X0000	0000	0X00	0X00	0000
179	SM REPLY = "25"> AUTOFOCUSFORWARD32	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0000	0X00
180	SM REPLY = "26"> AUTOFOCUSFORWARD64	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
181	SM REPLY = "27"> AUTOFOCUSFORWARD128	0X0000	0X0000	0X0000	000000	0000	0X00	0X00	0X00
182	SM REPLY = "28"> AUTOFOCUSFORWARD256	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00 i
183	SM REPLY = "29"> AUTOFOCUSFORWARD512	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
184	SM REPLY = "2A"> AUTOFOCUSFORWARD1024	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
185	SM REPLY = "2B"> AUTOFOCUSFORWARD2048	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0000	0X00
186	BRANCH TO AUTOFOCUSREADYFORCOMMAND	0X0000	0X0000	0X0000	0X0000	0000	0X00	0X00	OXOO
187	AUTOFOCUSLIGHTLEVELADJUSTMENT: SEND CURRENT	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0000
188	WAIT FOR STROBE SETTING	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00 I
189	PAUSE FOR IT TO TAKE EFFECT	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
	1.	1	1	1	1	1	1		
	<b>♦</b> OL 1							8	3D2 1
	•								

SMTST	TOSM	TVALUE	TFUNC	SENS	STST	SMSK	END	BRAN	DEST	TRANSLATED PARAMETERS
0x3030		0 <u>X00</u> 00	0X00	0X0000	<u>0</u> 000	0X00	0X0101	0X0020	0x3045	0X00, 0X00, 0X010T, 0X0020, 0x3045}
0X0000	0x36	0X002D	0x44	0000X0	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000}
0X000X0	0,30	0X0000	OXOO	0X0000	0X00	0X00	0X0000	0X0101	0x3136	0X00, 0X00, 0X0000, 0X0101, 0x3136}
0X0000	0	0X0000	0X00	0X000X	0X00	0X00	0X000F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000}
0X000X0	0	0X002E	0x44	0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000}
0X0000	0	0X002F	0x44	0X0000	0X00	OXOO	0X0101	0X0000	0X0000	0X00, 0X00, 0X0101, 0X0000, 0X0000)
0X3032	0x81	0X0030	0x44	0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000)
0X3030	0.01	0X000X0	ÖXOO	0X0000	0X00	0X00	0X0101	0X0020	326	0X00, 0X00, 0X0101, 0X0020, 326},
OX2D32	Ŏ	0X000X	0X00	0X0000	0X00	0X00	0X0101	0X0020	0x3045	0X00, 0X00, 0X0101, 0X0020, 0x3045
OX0000	Ŏ	0x2000	0x04	0X0000	0X00	0X00	0x0040	0X000X0	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000)
0X0000	Ŏ	0x2000	0x04	0X0000	OX00	0X00	0x0040	0X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000)
0X0000	Ö	0x2000	0x04	0X0000	0X00	0X00	0x0040	OX0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000)
0X0000	Ö	0x2000	0x04	0X0000	0X00	0X00	0x0040	0X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000)
0X0000	0	0X0000	0X00	0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000
0X0000	Ō	0X0000	0X00	0X0000	0X00	0X00	0X001F	OX0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000)
0X0000	0	0X0061	0x42	0X0000	0X00	0X00	0X001F	OX0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000)
0X0000	0	0X0000	0X00	0X0000	0X00	0X00	0X001F	OX0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000
0X0000	0	OX0000	0X00	0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000
0X0000	0x14	0X0000	0X00	0X0000	OX00	0X00	0x0101	0X0000	0X0000	0X00, 0X00, 0x0101, 0X0000, 0X0000)
0x3133	0	0x2000	0x04	0X0000	0X00	0X00	0X001F	0x0000	0x0000	0X00, 0X00, 0X001F, 0x0000, 0x0000),
0x3030	0	0X0000	0X00	0X0000	0X00	0X00	0X0101	0x2020	313	0X00, 0X00, 0X0101, 0x2020, 313},
0x3031	0	0X0000	0X00	0X0000	0X00	0X00	0X0101	0x2020	187	0X00, 0X00, 0X0101, 0x2020, 187},
0x3032	0	0X0000	0X00	0X0000	0X00	0X00	OX0101	0x2020	197	0X00, 0X00, 0X0101, 0x2020, 197},
0x3033	0	OX0000	0X00	0X0000	0X00	0X00	0X0101	0x2020	224	0X00, 0X00, 0X0101, 0x2020, 224},
0x3034	0	0X0000	0X00	0X0000	0X00	0X00	0X0101	0x2020	252	0X00, 0X00, 0X0101, 0x2020, 252},
0x3035	0	OX0000	0X00	0X0000	0X00	0X00	0X0101	0x2020	328	0X00, 0X00, 0X0101, 0x2020, 328},
0x3130	0	_0X0000	0X00	0X0000	0X00	0000	0X0101	0x2020	283	0X00, 0X00, 0X0101, 0x2020, 283},
0x3131	0	0X0000	0X00	0X0000	0X00	0X00	0X0101	0x2020	285	0X00, 0X00, 0X0101, 0x2020, 285},
0x3132	0	0X0000	0X00	0X0000	0X00	0X00	0X0101	0x2020	287	0X00, 0X00, 0X0101, 0x2020, 287},
0x3230	0	0X0000	0X00	0X0000	0X00	0X00	0X0101	0x2020	289	0X00, 0X00, 0X0101, 0x2020, 289},
0x3231	0	0X0000	0X00	0X0000	0X00	0X00	0X0101	0x2020	291	0X00, 0X00, 0X0101, 0x2020, 291},
0x3232	0	0X0000	0X00	0X0000	0X00	0X00	0X0101	0x2020	293	0X00, 0X00, 0X0101, 0x2020, 293},
0x3233	0	0X0000	0X00	0X0000	0X00	0X00	0X0101	0x2020	295	0X00, 0X00, 0X0101, 0x2020, 295},
0x3234	0	0X0000	0X00	0X0000	0X00	0X00	0X0101	0x2020	297	0X00, 0X00, 0X0101, 0x2020, 297},
0x3235	0	0X0000		0X0000	0X00	0X00	0X0101	0x2020	299	0X00, 0X00, 0X0101, 0x2020, 299},
0x3236		0X0000			0X00	0X00	0X0101	0x2020	301	0X00, 0X00, 0X0101, 0x2020, 301},
0x3237	0	0X0000		0X0000	0X00	0X00	0X0101	0x2020	303	0X00, 0X00, 0X0101, 0x2020, 303},
0x3238	0	0X0000		0X0000	0X00	0X00	0X0101	0x2020	305	0X00, 0X00, 0X0101, 0x2020, 305},
0x3239	0	0X0000		0X0000	0X00	0000	0X0101	0x2020	307	0X00, 0X00, 0X0101, 0x2020, 307},
0x3241	0	0X0000		0X0000	0X00	0X00	0X0101	0x2020	309	0X00, 0X00, 0X0101, 0x2020, 309},
0x3242	0	0X0000		0X0000	0X00	0X00	0X0101	0x2020	311	0X00, 0X00, 0X0101, 0x2020, 311},
0X0000		0X0000		0X0000	0X00	0X00	0X0000	0X0101	163	0X00, 0X00, 0X0000, 0X0101, 163},
0X0000		0X0000		0X0000	0X00	0X00	0x0101	0X0000	0X0000	0X00, 0X00, 0x0101, 0X0000, 0X0000
0x3130 0x0000	0	0x2000		0X0000	0X00	0000	0X001F	0x0000	0x0000	0X00, 0X00, 0X001F, 0x0000, 0x0000}, 0X00, 0X00, 0X001F, 0x0000, 0x0000},
	1 0	0X0032	0x42	0X0000	0X00	0X00	T0X001F	0x0000	0x0000	L - LONGOR POLITICA DE LA CIDA LE LO PARTICIO DE LA CONTRACTOR DE LA CONTR

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STATE STATE DESCRIPTION	SPACMD	FBACMD	STMCMD	OBACMD	SPASTAT	FBASTAT	STMSTAT	OBASTAT
190 I SEND STROBE SETTING TO SM	0 <u>x000</u> 0	000000	<u>0</u> 00000	<u> </u>	ŌXŌŌ —	10 <u>x</u> 00	OXOO -	<u>0000</u>
191 I WAIT FOR "IMAGE PROCESSING IDLE"	0X0000	0X0000	0X0000	OX0000	0X00	0X00	0X00	0X00
192 CAPTURE BACKGROUNDS FOR LIGHT LEVEL WAITFORSMTOBEDONEWITHBACKGROUNDS: WAIT FOR SM TO BE	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
WALLEUKSMIOBEDONEWITHBACKGROUNDS: WALLEUK SM 10 BE	040000	avaaaa	0,40000	040000	0,000	0400	0,000	OVOO I
193 DONE WITH LIGHT LEVEL BACKGROUNDS	0X0000	_0X0000_	0X0000_	0X0000	0X00	0X00	0X00	_0X00[
IF SM REPLIES '00' BRANCH TO "HANDLE STROBE"; ELSE FALL 194   THROUGH	0x0000	000000	000000	0X0000	0X00	0X00	0000	0000
195   SEND COMPLETION SIGNAL TO HOST	0X0000	0X0000	L 0X0000	OX0000	0X00	OXOO	0000	0000
195   SEND COMPLETION SIGNAL TO HOST 196   BRANCH TO AUTOFOCUSREADYFORCOMMAND	OX0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
197   AUTOFOCUSCOARSE: RETRIEVE CONTROL ID (BAR CODE)	0X0000	0X0000	0X0707	000000 I	0X00	0X00	0000	0X00
198 GET SAMPLE INFO FROM HOST	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
1 IF SM REPLIES '00', BRANCH TO "MOVE TO NEXT 199   CONTROL TUBEPOSITION (AF)"	000000	0X0000	000000	000000	0X00	0X00	0X00	OXOO :
200 LIESM REPLIES -2', BRANCH TO "OF" (CLEAR RACK)	OX00000	0X0000	0X0000	0X00000	TÖXÖÖ	ÖXÖÖ	ÖXÖÖ	OXOO
201   WAIT FOR "IMAGE PROCESSING IDLE"	OX0000	0X0000	0X0000	0X0000	0X00	OX00	0X00	0X00 i
200   IF SM REPLIES '-2', BRANCH TO "OE" (CLEAR RACK) 201   WAIT FOR "IMAGE PROCESSING IDLE" 202   START SHEATH FOR BACKGROUND CAPTURE	l SB	0X0000	0X0000	0X0000	0X31	0X00	0X00	0X00
203 I WAIT FOR SB COMPLETE	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	OXFF OXOO	0X00 0X00	0X00 0X00	0X00 0X00
204 TIMER DELAY BEFORE CAPTURE	<del>                                     </del>	0,0000	UNUUUU	UNUUUU	1 0,00	UNUU	1 0,000	0,000
CAPTURE BACKGROUND AND WAIT FOR FRAME PROCESSING COMPLETE		0,0000	avaaaa	040000	avaa	ovoo	ovoo	l avaa i
205 (FUTURE WAIT FOR FRAME CAPTURE COMPLETE) OR SHORT SAMPLE DETECTOR	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00_
SEND "SHORT SAMPLE" MESSAGE AND WAIT FOR FRAME PROCESSING COMPLETE (FUTURE WAIT FOR FRAME CAPTURE 206   COMPLETE). JE EXCEEDS 10 SECS - GOTO BX.								
206 COMPLETE) IF EXCEEDS 10 SECS - GOTO BX	000000	000000	0X0000	000000	0000	0X00	0000	OX00
207 I TURN OFF EP PUMP ON SPA	EB	0X0000	0X0000	0X0000	0X34	_0X00_	0X00	OX00 .
208 WAIT FOR EB COMPLETE	0X0000	0X0000	000000	0X0000	OXFF	OXOO	0X00	<u>0000</u>
209   INITIAL OFFSET A (COARSE) 210   Wait for Oba Back to IDLE	0X0000	0X0000	0X0000	IA OYOOOO	0000	0X00 0X00	0X00 0X00	0X33 i 0XFF i
210 WAIT FOR OBA BACK TO IDLE	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X00 0X00	0000	0000	0000
211   WAIT FOR "IMAGE PROCESSING IDLE" 212   Start Aspiration for Sample Transfer	AS	RC	0X0000	0X0000	1 0X17	0000	0000	<del>  0000</del>
213 I WAIT FOR AS AND RC COMPLETE	AS 0X0000	0X0000	0X0000	0X0000	OXFF	OXFF	0X00	OX00 :
21/ I TIMED DEI AV DECODE CADTIIDE	000000 L	000000	000000	0X0000	QXXX	0X00	0X00 0X00	0000
215   COARSEFWI AF 216   Wait for OBA BACK to IDLE	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	NA 0X0000	OXOO OXOO	0X28 0X00	0X00	UX33     OXFF
215 COARSEFWI AF 216 WAIT FOR OBA BACK TO IDLE CAPTURE SAMPLE FRAMES ("SMCSATNEXTAUTO FOCUSPOSITION") AND WAIT FOR SAMPLE FRAME CAPTURE COMPLETE OR SHORT	0,0000	0,0000	000000	0,0000	1 0,000	0,000	1 0/00	I VALL
AND WAIT FOR SAMPLE FRAME CAPTURE COMPLETE OR SHORT				1				1 1
217 SAMPLE DETECTOR	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00_
								i
SEND "SHORT SAMPLE" MESSAGE AND WAIT FOR SAMPLE FRAME	0X0000	0X0000	0X0000	0X0000	0X00	0000	0000	0x00
218 CAPTURE COMPLETE	1 00000	UNUUUU	UNUUUU	UNUUUU	UNUU	UNUU	1 0,000	1 0,000
IF SM ARGUMENT TO "DONEGATHERINGIMAGES" IS '00' BRANCH TO	1							!
219   FORWARD1ONFOCUSMOTOR; ELSE FALL THROUGH	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00 _	0000
220   SEND COMPLETION SIGNAL TO HOST	0X0000	<u>0,0000</u>	0X0000	0X0000	0X00 0X27	0000	0000	0X00 i
221 HOME PUMPS 222 I Wait for as and RC Complete	HC 0X0000	HC 0X0000	0X0000 0X0000	0X0000 0X0000	OX27 OXFF	0X00 0XFF	0X00 0X00	0X00 I
223   BRANCH TO AUTOFOCUSREADYFORCOMMAND	0X0000	000000	0X0000	0X0000	0X00	OXXV	1 00000	0X00
223   BRANCH TO AUTOFOCUSREADYFORCOMMAND 224   AUTOFOCUSPEAK: RETRIEVE CONTROL ID (BAR CODE)	1 0X0000	0X0000	0X0707	1 0X0000	0X00	0X00	0X00	OX00 :
225 I GET SAMPLE INFO FROM HOST	0X0000	OX0000	0X0000	0X0000	0X00	0X00	0X00	OX00
IF SM REPLIES '00', BRANCH TO "MOVE TO NEXT CONTROL TUBE 226   POSITION (AF)"	Ανορο	000000	Ονορον	040000	0400	UNUU	UNU	0,000
226   POSITION (AF)" 227   IF SM REPLIES '-2', BRANCH TO "OE" (CLEAR RACK)	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X00 0X00	0X00 0X00	0X00 0X00	0X00 0X00
228   WAIT FOR "IMAGE PROCESSING IDLE" \	0X0000	0X0000	0X0000	000000	0X00	0X00	0X00	0X00
229 I START SHEATH FOR BACKGROUND CAPTURE	SB	0X0000	0X0000	0X0000	0X31	0X00	0X00	OX00
230 WAIT FOR SB COMPLETE	0X0000	0X0000	0X0000	0X0000	OXFF	0X00	0X00	0X00
231 TIMER DELAY BEFORE CAPTURE	0X0000	0X0000	0X0000	0X0000	0X00	0X00_	0X00	0X00
	+	+	+	<del>'-</del>		<del></del>	J	<u> </u>
↓ Oi i								8E2 i

SMTST	TOSM	TVALUE	TFUNC	SENS	STST	SMSK	END	BRAN	DEST	TRANSLATED PARAMETERS
X0000		0X0000	0X00	000000	0000	0000		<u>000000</u>	<u>0x0000</u> —	0X00, 0X00, 0x0101, 0X0000, 0X00000}.
x3338	0x37	000000	0x00	0X0000	0000	0000	0X001F	000000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X00003,
x0000	0X83	0x0000	0x00	0x0000	0x00	0x00	0x0101	0x0000	0x0000	0x00, 0x00, 0x0101, 0x0000, 0x0000),
)X3034	0	0x0000	0x00	0x0000	0x00	0x00	0X0010	0x0000	0x0000	0x00, 0x00, 0X0010, 0x0000, 0x0000),
OX3030	n	000000	0X00	0X0000	0X00	0X00	0X0101	0X0020	279	0X00, 0X00, 0X0101, 0X0020, 279}.
)x0000	0x87	0X0000	OXOO	0X0000	0X00	0X00	0X0101	0X0000	0X0000	0X00, 0X00, 0X0101, 0X0000, 0X0000}
0000XC		0X0000	0X00	0X0000	0X00	0X00	0X0000	0X0101	163	0X00, 0X00, 0X0000, 0X0101, 163},
0X0000 0X3032	0x81	0X002F 0X0030	0x44 0x44	0X0000 0X0000	0X00 0X00	0X00 0X00	0X0101 0X001F	0X0000 0X0000	0X0000 0X0000	0X00, 0X00, 0X0101, 0X0000, 0X0000} 0X00, 0X00, 0X001F, 0X0000, 0X0000}
	UXOI			1						, ,
0X3030	0	0X0000	0X00	0X0000	0X00 0X00	0X00 0X00	0X0101	0X0020	326 0x3045	0X00, 0X00, 0X0101, 0X0020, 326}, 0X00, 0X00, 0X0101, 0X0020, 0x3045}.
0X2D32 0x3338	0x37	0X0000 0X0000	0X00 0x00	0X0000 0X0000	0000	0000	0X0101 0X001F	0X0020 0X0000	0X0000	0X00, 0X00, 0X001F, 0X0020, 0X3043} 0X00, 0X00, 0X001F, 0X0000, 0X0000}.
0X0000		0X0000	0X00	0X0000	0000	0X00	0x001F	0X0000	0X0000	0X00, 0X00, 0x001F, 0X0000, 0X0000},
0X0000	l n	0X0000	0000	0X0000	0000	0000	0X001F	000000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X00003
ÖXÖÖÖÖ	Ŏ	0X0018	Öx42	ÖXÖÖÖÖ	0x00	ÖxÖÖ	ÖXÖÖÖÖ	0x0000	ÖXÖÖÖÖÖ	0x00, 0x00, 0X0000, 0x0000, 0X0000};
OX3034	0X83	0x0000	0x00	0x0032	0x00	0x02	0x0001	0x0010	207	0x00, 0x02, 0x0001, 0x0010, 207},
0X3034	_0x31	0x0019	0x43	0x0000	_0x00	0x00	0X0010	0x0000	0x4258	0x00, 0x00, 0X0010, 0x0000, 0x4258}.
0X0000	0.51	000013	000	000000	0000	0000	0x0010	10X0000	000000	0X00, 0X00, 0x001F, 0X0000, 0X00001
000000	Ŏ	000000	0000	000000	0000	0000	0X001F	000000	000000	00000, 0000, 00001 000000, 000000
0X0000	Ŏ	0X003B		000000	0000	0000	0x0040	0X0000	000000	0X00' 0X00' 0x0040' 0X0000' 0X0000'
0X0000	Ŏ	0X003B		0X0000	0X00	0X00	0x0040	0X0000	0X0000	0X00', 0X00', 0x0040', 0X0000', 0X0000'
0x3338	0x37	0X0000	0x00_	OX0000	0X00	0X00	0X001F	0X0000	000000	0X00, 0X00, 0X001F, 0X0000, 0X0000)
OX0000_		0X0000	0X00	0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000}
0X0000_	<u> </u>	0X0000	0X00	_0X0000	0X00	0X00	0x8606	0X0000	0X0000	0X00, 0X00, 0x8606, 0X0000, 0X0000) 0x00, 0x00, 0X0000, 0x0000, 0X0000
0X0000 0X0000	l n	0X0062 0X0041	0x42 0x44	0X0000 0X0000	0x00 0X00	0x00 0X00	0X0000 0x0040	0x0000 0X0000	0X0000 0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000)   0X00, 0X00, 0x0040, 0X0000, 0X0000)
0X0000	Ö	0x2000	0x04	000000	0X00	0000	0x0040	0X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000)
0X3036	OX8D	0x0000	0x00	0x0032	0X00	0x02	0x0001	0x0010	219	0X00, 0x02, 0x0001, 0x0010, 219},
0X3036	0x31	0X0063	0x43	0X0000	0X00	0X00	0X0010	0X0000	0X4258	0X00, 0X00, 0X0010, 0X0000, 0X4258
<u> </u>									0	, viivy, viivy, viivy iv, sinaavy, sii 1222,
0X3030		000000		000000	0000	0000	0X0101	00020	215	0X00, 0X00, 0X0101, 0X0020, 215}.
0x0000	0x87	0X0000	0000	000000	OXOO	0000	0X0101	000000	0X0000	UXUU, UXUU, UXU 1U 1, UXUUUU, UXUUUU,
0X0000	Ì	0X0000	0000	000000	0000	0000	0X001F	000000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000) 0X00, 0X00, 0x8606, 0X0000, 0X0000
0X0000	l ŏ	0X0000	0X00	0X0000	0X00_	0000	0x8606	0X0000	0X0000	[ UXUU, UXUU, UX8606, UXUUUU, UX00000]
0X0000	0	0X0000 0X002F	0X00	0X0000	0000	0000	0X0000	00000	163	0X00, 0X00, 0X0000, 0X0101, 163).
0X0000 0X3032	0x81	0X0030		0X0000 0X0000	0X00 0X00	0X00 0X00	0X0101 0X001F	0X0000	0X0000	0X00, 0X00, 0X0101, 0X0000, 0X0000 0X00, 0X00, 0X001F, 0X0000, 0X0000
0 <b>X</b> 3030	0	OX0000	0000	000000	OXOO	OX00_	000101	00020	326	0X00, 0X00, 0X0101, 0X0020, 326}.
0X3030 0X2D32	l ŏ		LÖXÖÖ	0X0000	0X00 0X00	T ÖXÖÖ	0X0101 0X0101	0X0020	0x3045	L 0X00, 0X00, 0X0101, 0X0020, 0x3045
0x3338	0x37	10X0000	0x00	0X0000	ÖXÖÖ	ŎXŎŎ	OXOO1F	0X0000	0X0000	I 0X00, 0X00, 0X001F, 0X0000, 0X00003
0X0000		0X0000	0X00	0X0000	0X00	0X00	0x001F	10X0000	L 0X0000	LOXOO, OXOO, OxOO1F, OXOOOO, OXOOOO\$
0X0000	10	10X0000		0X0000	0X00	0X00	0X001F	0X0000	0X0000	OXOO, OXOO, OXOO1F, OXOOOO, OXOOOO)
0X0000	0	0X0018	0x42	0X0000	0x00	0x00	0X0000	0x0000	0X0000	0x00, 0x00, 0X0000, 0x0000, 0X0000)

TATE STATE DESCRIPTION	SPACMD	FBACMD	STMCMD	OBACMD	SPASTAT	FBASTAT	STMSTAT	OBASTAT
CADTUDE BACKCOMUND AND WAIT FOR FRAME	<del></del>			<del></del>			<del></del> -	
PROCESSING COMPLETE (FUTURE WAIT FOR FRAME	070000	0,0000	040000	070000			, ,,	
232 CAPTURE COMPLETE) OR'SHORT SAMPLE DETECTOR.	_0X0000	_0X0000	0X0000	OX0000	_0x00	_0x00	0x00	0x00
COMPLETE (FUTURE WALT FOR FRAME CAPTURE COMPLETE).		<u> </u>						
233 IF EXCEEDS 10 SECS - GOTO BX.	_0X0 <u>0</u> 00	0X0000	0X0000	0X0000	0x00	_0x00	0x00	0x00
TURN OFF EP PUMP ON SPA 351 WAIT FOR EB COMPLETE	0X0000	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0x34 0xFF	0x00 0x00	0X00 0X00	0X00 0X00
P361 IF SM REPLIES '-1' RRANCH TO "END": FLSE FALL THROUGH	0X0000	000000	0X0000	0X0000	000	0X00	0X00	0000
237 INITIAL OFFSET B (PEAK)	0X0000	0X0000	0X0000	IB	_0X00	0X00	0X00	Ox33
238 WAIT FOR OBA BACK TO IDLE 239 WAIT FOR "IMAGE PROCESSING IDLE"	0X0000	0X0000	0X0000 0X0000	0x0000 0X0000	0X00 0x00	0X00 0x00	0X00 0X00	OxFF OXOO
240 START ASPIRATION FOR SAMPLE TRANSFER	_0X0000 AS	I RC	0X0000	00000	0x17	0x00	OXOO	OXOO
2411 WAIT FOR AS AND RC COMPLETE	0X0000	0X0000	0000X0	0X0000	0xFF	OxFF	0X00	0X00
421 TIMER DELAY BEFORE CAPTURE	000000	000000	0X0000	0X0000	0x00	0x00	0x00	0x00
243  PEAKFW1 AF 244  WAIT FOR OBA BACK TO IDLE	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	NB 0x0000	0X00 0X00	0x28 0X00	0X00 0X00	0x33 0xFF
CAPTURE SAMPLE FRAMES ("SMCSATNEXTAUTOFOCUSPOSITION") AND I		UNUUUU	UNUUUU	VAUVOU	UNUU	VAUV	VAUV	UNI
245 WAIT FOR SAMPLE FRAME CAPTURE COMPLETE OR SHORT SAMPLE	0X0000	0X0000	0X0000	0X0000	0x00	0X00	0X00	0X00
SEND "SHORT SAMPLE" MESSAGE AND WAIT FOR SAMPLE FRAME	0X0000	0X0000	OX0000	0X0000	0x00	OX00	0X00	00X00
2401 CAPTURE COPIFEETE  IF SM ARGUMENT TO "DONEGATHERINGIMAGES" IS '00' BRANCH TO I	UNUUUU	0,0000	ΟΛΟΟΟΟ	UNUUUU	UXUU	UNUU	0,000	UNUU
247 FORWARD TONFOCUSMOTOR; ELSE FALL THROUGH	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
2481 SEND COMPLETION SIGNAL TO HOST	0X0000	0X0000	0X0000	0X0000	0000	0X00	0X00	0000
249 HOME PUMPS 250 WAIT FOR AS AND RC COMPLETE	HC 0X0000	HC 0X0000	0X0000 0X0000	0X0000 0X0000	0x27 0xFF	0x00 0xFF	0X00 0X00	0X00 0X00
251 BRANCH TO AUTOFOCUSREADYFORCOMMAND	0X000X0	0X0000	000000	0X0000	ÖXÖÖ	T ÖXÖÖ	TÖXÖÖ	0000
2521 AUTOFOCUSCLINICAL: RETRIEVE CONTROL ID (BAR CODE)	0X0000	0X0000	0X0707	0X0000	0X00	0X00	0X00	0X00
253 GET SAMPLE INFO FROM HOST	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
IF SM REPLIES 'VO', BRANCH TO "MOVE TO NEXT 254 CONTROL TUBE POSITION (AF)"	0X0000	000000	000000	0X0000	0000	0X00	0000	0X00
2551 IF SM REPLIES '-2'. BRANCH TO "OF" (CLEAR RACK)	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
256 WAIT FOR "IMAGE PROCESSING IDLE" 257 START SHEATH FOR BACKGROUND CAPTURE	0X0000 SB	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0x00 0x31	0x00 0X00	0X00 0X00	0X00 0X00
2581 WALLEUK SB COMPLETE	0X0000	000000	0X0000	0X0000	0xFF	0x00	0X00	0X00
2591 TIMER DELAY BEFORE CAPTURE	0X0000	0X0000	0X0000	0X0000	0x00	0x00	0x00	0x00
CAPTURE BACKGROUND AND WAIT FOR FRAME PROCESSING COMPLETE (FUTURE WAIT FOR FRAME CAPTURE								
COMPLETE (FUTURE WAT) FOR FRAME CAPTURE 260 COMPLETE) OR SHORT SAMPLE DETECTOR.	000000	000000	0X0000	0X0000	0x00	0x00	0x00	0x00
SEND "SHORT SAMPLE" MESSAGE AND WAIT FOR FRAME	0//0000	UNUUUU	0//0000	0//0000	0,00	0,00	0,000	0,00
SEND "SHORT SAMPLE" MESSAGE AND WAIT FOR FRAME PROCESSING COMPLETE (FUTURE WAIT FOR FRAME 261 CAPTURE COMPLETE). IF EXCEEDS 10 SECS - GOTO BX.	040000	0,0000						
2611 CAPTURE COMPLETE). IF EXCEEDS TO SECS - GOTO BX. 2621 TURN OFF EP PUMP ON SPA	0X0000 EB	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0x00 0x34	0x00 0x00	0x00 0X00	0x00 0x00
263 WAIT FOR EB COMPLETE	0X0000	0X0000	000000	0X0000	OXFF	0x00	0X00	0000
264  IF SM REPLIES '-1' BRANCH TO "END"; ELSE FALL THROUGH	OX0000	0X0000 0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
265 INITIAL OFFSET C (CLINICAL)	0X0000	0X0000	0X0000	1 (	0X00	0X00	0X00	10x33
266  WAIT FOR OBA BACK TO IDLE 267  START ASPIRATION FOR SAMPLE TRANSFER	0X0000 AS	OXOOOO RC	0X0000 0X0000	0x0000 0x0000	0X00 0x17	0X00 0x00	0X00	OXFF OXOO
2681 WAII FOR AS AND RC COMPLETE	0X0000	0X0000	0X0000	0X0000	0xFF	0xFF	0X00	0X00
2691 TIMER DELAY BEFORE CAPTURE 2701 CLINICALFWI AF	0X0000	0X0000	0X0000	0X0000	0x00	0x00	0x00	0x00
2701 CHNICALFWT AF- 2711 WAIT FOR OBA BACK TO IDLE	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	NC 0x0000	0X00 0X00	0x28 0X00	0X00 0X00	0x33 0xFF
		0,0000	0,0000	- UXUUUU		1 0,00	UNUU	I VALL

SMTST	TOSM	TVALUE	TFUNC	SENS	STST	SMSK	END	BRAN	DEST	TRANSLATED PARAMETERS
)X3034	0X83	0x0000	0x00	0x0032	0x00	0x02	0x0001	0x0010	234	0x00, 0x02, 0x0001, 0x0010, 234},
)X3034	021	0X0019	0.42	0-000	0x00	0.00	0X0010	0x0000	0x4258	0x00. 0x00. 0X0010. 0x0000. 0x4258}
)X3034 )X0000	0x31	000000	0x43 0X00	0x0000	0000	0x00 0x00	1 0x0010 0x001F	OXOUOU	0X4258 0X0000	0X00, 0X00, 0X0010, 0X0000, 0X4238) 0X00, 0X00, 0x001F, 0X0000, 0X00000
000000	<del></del>	TOXOOOO	- XXXV	0X0000 0X0000	T ÖXÖÖ	0X00 0X00	0x001F 0X001F	0X0000 0X0000	ŎXXXXX I	0000, 0000, 00001F, 000000, 000000
0x2D31	(	0000X0 (	ÖXÖÖ	0X0000	0X00	0X00	0X0101	10X0020	335	0X00, 0X00, 0X0101, 0X0020, 335},
0000XC	(	) 0X003B	0x44	0X0000	0X00	0X00	0x0040	0X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000
0X0000 0x3338	(	) 0X003B	0x44	0X0000	0000	0X00	0x0040	0X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000
)x3338 )X0000	0x37	0X0000 0X0000	0x00 0X00	0X0000 0X0000	0X00 0X00	0X00 0X00	0X001F 0X001F	0X0000 0X0000	0X0000 0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000 0X00, 0X00, 0X001F, 0X0000, 0X0000
0000XC		000000 0 000000	0X00	0X0000	0000	0000	0x8606	0X0000	0X0000	0X00, 0X00, 0x8606, 0X0000, 0X0000
0X0000		0 10X0062	0x42	0X0000	0x00	0x00	00000X0	0x0000	ŎXŎŎŎŎ	0x00, 0x00, 0X0000, 0x0000, 0X0000
0X0000	(	0 0X0041	0x44	0X0000	ÖXÖÖ	0X00	0x0040	10X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000
0000XC		0X003B	0x44	0X0000	0000	0X00	0x0040	0X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000
0X3036	OX8D	0x0000	0x00	0x0032	0X00	0x02	0x0001	0x0010	247	0X00, 0x02, 0x0001, 0x0010, 247},
0X3036	0x31	0X0063	0x43	000000	0X00	0X00	0X0010	0X0000	0X4258	0X00, 0X00, 0X0010, 0X0000, 0X4258
0X3030		000000	0000	0X0000	0X00	0X00	0X0101	0X0020	242	0X00, 0X00, 0X0101, 0X0020, 243}.
0x0000	0x87	10X0000 10X0000	0X00	0X0000	0X00	0X00	0X0101	0X0000	0X0000	0X00, 0X00, 0X0101, 0X0020, 243}, 0X00, 0X00, 0X0101, 0X0000, 0X0000
0X0000	0.07	0 10X0000	0000	000000 000000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000
0X0000		0000X010	OX00	T0X0000	0X00	OX00	0x8606	10X0000	OX0000	0X00, 0X00, 0x8606, 0X0000, 0X0000
0X0000		0 OXOOOO	0X00	10X0000	0X00	0X00	T0X0000	0X0000 0X0101	163	0X00, 0X00, 0X0000, 0X0101, 163}.
0X0000		0 0X002F	0x44	0X0000	0X00	0X00	0X0101	0X0000	0X0000	0X00, 0X00, 0X0101, 0X0000, 0X0000
0X3032	0x81	0X0030	0x44	0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000
0X3030		<del>o toxoooo</del>	0000	0x0000	0000	OX00	0X0101	0X0020	326	0X00, 0X00, 0X0101, 0X0020, 326},
OX2D32		0 0X0000	0X00	0X0000	0X00	0X00	0X0101	0X0020	0x3045	0X00, 0X00, 0X0101, 0X0020, 0x3045
0x3338	0x37	0X0000	0x00	0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000
000000		0 000000	0000	0X0000	0X00	0X00	0x001F	0X0000	0X0000	0X00, 0X00, 0x001F, 0X0000, 0X0000
0X0000 0X0000		0   0X0000 0   0X0018	0X00 0x42	0X0000 0X0000	0X00 0x00	0X00 0x00	0X001F 0X0000	0X0000 0x0000	0X0000 0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000 0x00, 0x00, 0X0000, 0x0000, 0X0000
UNUUUU		0 1000010	UATE	00000	UXUU	0.00	000000	000000	000000	0.000, 0.000, 0.00000, 0.00000, 0.00000
0X3034	OX83	0x0000	0x00	0x0032	0x00	0x02	0x0001	0x0010	262	0x00, 0x02, 0x0001, 0x0010, 262},
00,3031	0.03	000000	0,00	OXOUSE	0,00	UNUL.	0.0001	0.0010	202	0,001,0,021,0,00011,0,0010,202),
0V2024	0.24	040010	0.43	0 0000	1	0.00	0,0010	0,000	0.4250	0.00 0.00 0.00010 0.0000 0.4358
<u>0X3034</u> 0X0000	0x31	0X0019 0 0X0000	0x43 0X00	0x0000 0X0000	0x00 0X00	0x00 0X00	0X0010 0x001F	0x0000 0X0000	0x4258 0X0000	0x00, 0x00, 0X0010, 0x0000, 0x4258 0X00, 0X00, 0x001F, 0X0000, 0X0000
0X0000		0 0X0000	0X00	0X000X	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000
0x2D31		0 000000	OXOO	0X000X	0X00	0X00	1 0X0101	10X0020	335	0000, 0000, 000101, 000020, 335},
0X0000		0	0x44	0X0000	0X00	0X00	0x0040	OX0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000
000000		0 T0X003B	0x44	000000	0000	0000	0x0040	0X0000 0X0000	000000	0X00, 0X00, 0x0040, 0X0000, 0X0000
0X0000		0 0X0000	0000	0X0000	0000	ÖXÖÖ	0X001F	100000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000
0X0000 0X0000		0   0X0000 0   0X0062	0X00 0x42	0X0000 0X0000	0X00 0x00	0X00 0x00	0x8606 0X0000	0X0000 0x0000	0X0000 0X0000	0X00, 0X00, 0x8606, 0X0000, 0X0000   0x00, 0x00, 0X0000, 0x0000, 0X0000
0X0000		0 10x0062 0 10x0041	0x42 0x44	10X0000	0X00	0X00 0X00	0x0040	10X0000	0X0000	0X00, 0X00, 0X0040, 0X0000, 0X0000
0X0000		0 0X003B		0X0000	0X00	ÖXÖÖ	0x0040	10X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000
		- 1	1	1	1	1	1	1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
— –								- √8G2		

STATE	STATE DESCRIPTION SPACMD	FBACMD	STMCMD	OBACMD	SPASTAT	FBASTAT	STMSTAT	OBASTA
	APTURE SAMPLE FRAMES	<u> </u>	<b></b>				<del>  -</del>	
(	SMCSATNEXTAUTOFOCUSPOSITION") AND WAIT FOR SAMPLE RAME CAPTURE COMPLETE OR SHORT SAMPLE DETECTOR							l i
272 F	RAME CAPTURE COMPLETE OR SHORT SAMPLE DETECTOR	0X0000	0X0000	0X0000	0X0000	0x00	OX00	0X00
273 F	END "SHORT SAMPLE" MESSAGE AND WAIT FOR SAMPLE RAME CAPTURE COMPLETE	0x0000	000000	000000	0х0000	0x00	0X00	0X00 ¦
77	F SM ARGUMENT TO "DONEGATHERINGIMAGES" IS '00' Branch to Forward 1 on Focusmotor; Else Fall Through					Ī		
274	BRANCH TO FORWARD10NFOCUSMOTOR; ELSE FALL THROUGH	0X0000	0X0000 0X0000	0X0000 0X0000	0X0000	0X00 0X00	0X00 0X00	0X00 !
275 S 276 F	END COMPLETION SIGNAL TO HOST HOME PLIMPS	OXOOOO HC	T HC	000000	0X0000	0x27	0x00	1 0000 I
277	HOME PUMPS VALLED AS AND RC COMPLETE	0X0000	0X0000	1 0X0000	0X0000	T OxFF	OxFF	0X00
278 279	Branch to autofocusreadyforcommand Iandlestrobe: Wait for strobe setting	0X0000	0X0000	0X0000 0X0000	0X0000	0X00 0X00	0X00 0X00	0X00 i
2/9   1 280	PAUSE FOR IT TO TAKE FFFECT	000000	000000	000000	000000	0000	0000	1 0000 I
280 1 281	PAUSE FOR IT TO TAKE EFFECT SEND STROBE SETTING TO SM	0X0000	_0X0000	OX0000	0X0000 0X0000	0X00 0X00	0X00 0X00	TOX00 !
282   1 283   7	SRANCH BACK TO WAITFORSMTOBEDONEWITHBACKGROUNDS Autofocuscoarsefinaloffset	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X0000   BA	0X00 0X00	0X00 0X00	0X00 0X00
	NAIT FOR OBA AND BRANCH TO AUTOFOCUSREADYFORCOMMAND	0X0000	0X0000	0X0000	0X0000	0X00	0000	0000
	AUTOFOCUSPEAKFINALOFFSET	0X0000	1 0X0000	0X0000	BB	T ÖXÖÖ	OXOO	T 0000 !
286	WAIT FOR OBA AND BRANCH TO AUTOFOCUSREADYFORCOMMAND	0X0000	0X0000	0X0000	000000	0X00	0X00	0X00
287   7	AUTOFOCUSCLINICALFINALOFFSET	0X0000	0X0000	0X0000	BC	0X00	0X00	0X00 !
288	NAIT FOR OBA AND BRANCH TO AUTOFOCUSREADYFORCOMMAND	0X0000	0X0000	000000	<u>0</u> 00000	0X00	0X00	0X00
	AUTOFOCUSFORWARD 1 WAIT FOR OBA AND BRANCH TO AUTOFOCUSREADYFORCOMMAND	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	F0 0X0000	0X00 0X00	0X00 0X00	0X00 0X00
	AUTOFOCUSFORWARD2	000000	000000   000000	000000 000000	FI	0000	<del>T ÖXÖÖ -</del>	1 0000 i
292	WAIT FOR OBA AND BRANCH TO AUTOFOCUSREADYFORCOMMAND	0X0000	0X0000	OX0000	0X0000	0000	000	0X00
293	<u>autofocusforward4</u>	0X0000	0X0000	0X0000	F2	0X00	0X00	0X00_i
294	WAIT FOR OBA AND BRANCH TO AUTOFOCUSREADYFORCOMMAND	0X0000	0X0000 0X0000	0X0000 0X0000	0X0000 F3	0X00 0X00	0X00 0X00	0X00_1
	AUTOFOCUSFORWARD8 WAIT FOR OBA AND BRANCH TO AUTOFOCUSREADYFORCOMMAND	0X0000 0X0000	0X0000	000000	0X0000	0X00	0X00	0X00_i
297	AUTOFOCUSFORWARD 16	0X0000	0X0000	0X0000	F4	00X0	0000	0X00 i
298	WAIT FOR OBA AND BRANCH TO AUTOFOCUSREADYFORCOMMAND	000000	0X0000	0X0000	0X0000	0X00	0X00	0X00_
	AUTOFOCUSFORWARD32	0X0000	0X0000	0X0000	F5	0X00	0X00	<u>  0000</u> ;
300   301   3	WAIT FOR OBA AND BRANCH TO AUTOFOCUSREADYFORCOMMAND AUTOFOCUSFORWARD64	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X0000 F6	0X00 0X00	0X00 0X00	0000
	WAIT FOR OBA AND BRANCH TO AUTOFOCUSREADYFORCOMMAND	0X0000	0X0000	0X0000	0X0000	0X00	0000	0X00
303	AUTOFOCUSFORWARD128	0X0000	0X0000	0X0000	F7	0X00	0000	0X00
304	WAIT FOR OBA AND BRANCH TO AUTOFOCUSREADYFORCOMMAND	_0X0000	OX0000	OX0000	0X0000	0X00_	0X00	_0X00_1
	AUTOFOCUSFORWARD256		0X0000	000000	F8	0X00 0X00	0X00	0X00 0X00
306 307	WAIT FOR OBA AND BRANCH TO AUTOFOCUSRFADYFORCOMMAND AUTOFOCUSFORWARD512	0X0000	0X0000 0X0000	0X0000 0X0000	0X0000   F9	0X00	0000	0X00 1
	WAIT FOR OBA AND BRANCH TO AUTOFOCUSREADYFORCOMMAND	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00
309	AUTOFOCUSFORWARD1024	ÖXÖÖÖÖ	ÖXÖÖÖÖ	000000	FA	ŎXŎŎ	ŎXŎŎ	ŎXŎŎ ;
	WAIT FOR OBA AND BRANCH TO AUTOFOCUSREADYFORCOMMAND	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00
311	AUTOFOCUSFORWARD2048	0X0000	000000	000000	FB OVOCOO	0000	0000	0000
312 313	WAIT FOR OBA AND BRANCH TO AUTOFOCUSREADYFORCOMMAND AUTOFOCUSCLEANUP: TO WASTE WELL	0X0000 TW	0X0000 DB	0X0000 0X0000	0X0000 0X0000	0X00 0x15	0X00 0x00	0X00 0X00
314	NOTO CONSCIENT OF TO THE TIELL	0X0000	OX0000	0X0000	OX0000	OxFF	0x00	OX00 I
315	TECT CUENTU EHIT CENICAD	0X0000	1 0X0000	0X0000	0X0000 0X0000	0x00	OXFF	0000
315 316 317	TEST SHEATH FULL SENSOR TURN ON RINSE PUMP AND RINSE PIPETTER	OXOOOO TR	OXOOOO RP	0X0000 0X0000	00000	0X00 0X00	0x00 0x25	0X00   0X00
<del></del>		<del>  '''                                 </del>	<del>+ '''</del>					+
	<del>-</del> Т <u>8</u> Н1							8G2 ;
								JJL

SMTST	TOSM	TVALUE	TFUNC	SENS	STST	SMSK	END	BRAN	_DEST _	TRANSLATED PARAMETERS
0X3036	OX8D	0x0000	0x00_	0x0032	0X00	0x02	0x0001_	0x0010	274	0X00, 0x02, 0x0001, 0x0010, 274},
0X3036	0x31	0X0063	0x43	0X0000	OX00	0000	0X0010	0X0000	0X4258	0X00, 0X00, 0X0010, 0X0000, 0X4258},
0X3030_	0	0X0000	0X00	000000	0X00	0X00	0X0101	0X0020	270	0X00, 0X00, 0X0101, 0X0020, 270},
0x0000	0x87	0X0000	0X00	0X0000	0X00	0X00	0X0101	0X0000	0X0000	OXOO, OXOO, OXO101, OXOOOO, OXOOOO},
00000	<u>ğ</u>	000000	0000	0X0000	0000	0X00 0X00	0X001F 0x8606	0X0000	0X0000 0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000},
0X0000 0X0000	0	0X0000 0X0000	0X00 0X00	0X0000 0X0000	0X00 0X00	0X00	0X0000	0X0000 0X0101	163	0X00, 0X00, 0x8606, 0X0000, 0X0000}, 0X00, 0X00, 0X000, 0X0101, 163},
10x3130	0	0X0044	0x44	0X0000	0000	0X00 0X00	0X001F 0X001F	0x0000 0x0000	0x0000 0x0000	0X00, 0X00, 0X001F, 0x0000, 0x0000}, 0X00, 0X00, 0X001F, 0x0000, 0x0000},
1 <u>0x0000</u> 10X0000	0x8B	0X0045 0X0000	0x42 0X00	0X0000 0X0000	0X00 0X00	0000	0x0101	0X0000	0X0000	0X00, 0X00, 0X0101, 0X0000, 0X0000},
0x0000	0,000	0X0000	OX00	0X0000	0X00	0X00	0x0000	0x0101	193	0X00.0X00.0x0000.0x0101.193}.
0X0000	Q	0x2000	0x04	000000	QXXX	0X00 0X00	0x0040	QXQQQQ	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000},
0X0000 0X0000	0	0X0000 0x2000	0X00 0x04	0X0000 0X0000	0X00 0X00	0X00	0x0040 0x0040	0x0040 0x0000	0X0000	0X00, 0X00, 0x0040, 0x0040, 163}, 0X00, 0X00, 0x0040, 0X0000, 0X0000},
0X0000	0	0X0000	0000	0X0000	0000	0X00	0x0040	0x0040	163	0X00, 0X00, 0x0040, 0x0040, 163},
10X0000	0	0x2000	0x04	0X0000	0X00	0X00	0x0040	0X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000),
10X0000	ľ	000000	ÖXÖÖ	0X0000	0X00	0000	0x0040	0x0040	163	0X00, 0X00, 0x0040, 0x0040, 163},
000000	0	0x2000	0x04	0X0000	0X00	0X00	0x0040	0X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000},
0X0000	0	0X0000	0X00	0X0000	0X00	0X00	0x0040	0x0040	163	0X00, 0X00, 0x0040, 0x0040, 163},
0X0000	0	0x2000	0x04	0X0000	0X00	0X00	0x0040	0X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000},
0X0000	0	0X0000	0X00	0X0000	0X00	0000	0x0040	0x0040	163	0X00, 0X00, 0x0040, 0x0040, 163},
0X0000 0X0000	0	0x2000 0x0000	0x04 0X00	0X0000 0X0000	0X00 0X00	0X00 0X00	0x0040 0x0040	0X0000 0x0040	0X0000 163	0X00, 0X00, 0x0040, 0X0000, 0X0000},   0X00, 0X00, 0x0040, 0x0040, 163},
000000	l ö	0x2000	0x04	0X0000	0X00	0X00	0x0040	0X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000),
0X0000	0	0X0000	0X00	0X0000	0X00	0X00	0x0040	0x0040	163	0X00, 0X00, 0x0040, 0x0040, 163},
OX0000	Ŏ	0x2000	0x04	0X0000	0X00	0X00	0x0040	0X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000},
0X0000	0	0X0000	0X00	0X0000	0X00	0X00	0x0040	0x0040	163	0X00, 0X00, 0x0040, 0x0040, 163},
0X0000	0	0x2000	0x04	0X0000	0X00	0X00	0x0040	0X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000},
0X0000	<del>                                     </del>	10X0000	0X00 0x04	<u> </u>	0X00 0X00	0X00 0X00	1 0x0040	0x0040 0x0000	0X0000	0X00, 0X00, 0x0040, 0x0040, 163}, 0X00, 0X00, 0x0040, 0X0000, 0X0000},
10X0000	0	0x2000 0X0000	0X04 0X00	0X0000 0X0000	0X00	0X00	0x0040 0x0040	0x0040	163	0X00, 0X00, 0X0040, 0X0040, 0X0000 <sub>3</sub> , 0X0000 <sub>3</sub> ,
0X0000	l ö		0x04	0X0000	0X00	0X00	0x0040	000000	0X0000	0X00, 0X00, 0X0040, 0X0000, 0X0000),
0X0000	Ö			0X0000	0X00	0000	0x0040	0x0040	163	0X00, 0X00, 0x0040, 0x0040, 163},
i 0X0000	Ŏ	0x2000	0x04	0X0000	0X00	0X00	0x0040	0X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000},
0X0000	0			0X0000	0X00	0X00	0x0040	0x0040	163	0X00, 0X00, 0x0040, 0x0040, 163},
0X0000	0			0X0000	0X00	0X00	0x0040	0X0000	0X0000	0X00, 0X00, 0x0040, 0X0000, 0X0000),
10X0000 10X0000	<u> </u>	1 1 1 1 1		0X0000 0X0000	0X00 0X00	0X00 0X00	0x0040 0x0040	0x0040	0X0000	0X00, 0X00, 0x0040, 0x0040, 163}, 0X00, 0X00, 0x0040, 0X0000, 0X0000},
000000	0	<del></del>	_1	0X0000	0X00	0X00	0x0040 0x0040	0X0000 0x0040	163	0X00, 0X00, 0X0040, 0X0000, 0X0000, 0X0000, 0X0000, 0X0000, 0X0040, 0X
10X0000	<del>  ŏ</del>			1 0X00000	0000	0000	0x0040 0x0040	000000	OX0000	0000, 0000, 000040, 000040, 000000, 000000),
10X0000	<del>l ŏ</del>			0X0000	0000	0X00	0x0040	0x0040	163	0X00, 0X00, 0x0040, 0x0040, 163},
10X0000	<del>  0</del>	- 0X0000	OX00	0X0000	0X00	0X00	0X001F	0X0000	OX0000	0X00, 0X00, 0X001F, 0X0000, 0X0000},
0X0000	0			0X0000	0000	0X00	0X001F	000000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000),
0X0000	0	1 :::::::::		0X0000	0X00	0000	0X001F	000000	000000	0X00, 0X00, 0X001F, 0X0000, 0X0000),
10X0000	0	0X0000		0x0033 0X0000	0x01 0x00	0x01 0X00	0x0101	0x0001 0x001F	318 319	0x01, 0x01, 0x0101, 0x0001, 318},
OX0000	<u> </u>	100000	- VAUV	VVVVVV	UNUU	LUNUU	0x0000	LVXUUIF	713	0X00, 0X00, 0x0000, 0x001F, 319},
8G1				- <b></b> -			- <del></del>			

		L 1/¬	_				1 10	J. U	
STAT	STATE DESCRIPTION	SPACMD	FBACMD	STMCMD	OBACMD	SPASTAT	FBASTAT	STMSTAT	OBASTAT
<u>ind</u> e)	TURN ON RINSE PUMP AND RINSE PIPETTER	<del></del>			0X0000	10 <u>x</u> 00 -	0.25	0700	0X00_1
317 318	TURN ON RINSE PUMP AND RINSE PIPETTER	TR TO	RP RP	0X0000 0X0000	00000	10X00	0x25 0x25	0X00 0X00	OXOO_
319	TOTAL OF THE CENTER OF THE COLUMN TOTAL OF THE	0X0000	0X0000	0X0000	0X0000	0xFF	0x00	0X00	10X00
320	ALE IN DIDETTED HAVE AD IND AD HAVE YA DEUT YIELD	0X0000	0X0000	000000	0X0000	0x00	OxEE	0X00	OX00_
321	CLEAR PIPETTER/HOME CP AND SP/MOVE TO NEXT TUBE	(P	HC	MN	0X0000	0X16	0X00	-0X00	0X00_
322 323		0X0000 0X0000	0X0000	0X0000	0X0000	OXFF Ox00	0x00 0xFF	0X00 0X00	0X00_I
323 324		000000	00000	0X0000	0X0000	0x00	0x00	OXFF	0000
325	BRANCH TO "16" (GO RESUME)	ባየሰሰሰሰ	0X0000	000000	0X0000	0X00	0000	0000	0000
	MOVETONEXTCONTROLTUBE_AF: MOVE TO NEXT CONTROL TUBE POSITION (AF)								
326 327 328	POSITION (AF)	0X0000	000000	MN	0X0000	0X00	0X00	0X32	0X00_
327	BRANCH TO "16" (GO RESUME)  VALIDATE FOLIDATE FOR CONTROL WAIT FOR OBAILDLE.	LOX0000	000000	0X0000	0X0000	ÖXÖÖ	OXOO	OXOO	0X00 0xFE
328_ 329	VALIDATE CUDDENT COCIC POSITION (MILET DE "IN EIDST	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0x0000 VP	0X00	0X00	0X00 0X00	0x60_1
330	VALIDATE CURRENT FOCUS POSITION (MUST BE "IN FIRST AF_VALIDATE1: IF 31 ("GOOD") FROM OBA GOTO AF_ISVALID IF 30 ("BAD") FROM OBA GOTO AF ISNOTVALID	0X0000	0X0000	0X0000	0X0000	0X00	0000	0x00	0x31
331	IF 30 ("BAD") FROM OBA GOTO AF ISNOTVALID	0X0000	ÖXÖÖÖÖ	0X0000	0X000X0	0X00	OXOO	0x00	0x30
331 332	LOOP BACK TO AF VALIDATE 1	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0X00	0X00
	AF_ISVALID: SEND EFOCUSPOSITIONISVALID (0X29) TO HOST	070000	040000	2,4222	04000				i i
333_	LOOP BACK TO AF VALIDATE 1  AF ISVALID: SEND EFOCUSPOSITIONISVALID (0X29) TO HOST AND GOTO AUTOFOCUSREADYFORCOMMAND  AF ISNOTVALID: SEND EFOCUSPOSITIONISNOTVALID (0X28) TO HOST AND GOTO AUTOFOCUSREADYFORCOMMAND	0X0000	0X0000	0X0000	OX0000	0X00	0X00	0X00	0X00_
224	AF_ISHOTYALID; SEND EFUCUSPUSHTUNISHOTYALID (UAZO) TU   HIGT AND COTO ALIFOEOCIK DEADVEODCOMMAND	0X0000	0X0000	000000	0X0000	000	loxoo	OX00	0X00
334 335	END "17" (AUTOFOCUS CONTROL)	0X0000	0X0000	0X0000	0X0000	0X00	10X00	0X00	0X00
336	I START NEW IDLE	0X0000	0X0000	000000	000000	0X00	loxoo	ÖXFF	10X00 L
337 338	L SENI) SYNCH COMMAND TO HOST	0X0000	1 0X0000	000000	0X0000 0X0000	0X00 0X00	T0X00	0x00 0x00	0X00 0X00
338	WAIT FOR SM COMMAND TELL STM TO LOOK FOR RACKS	0X0000	1 OXOOOO	000000	0X0000	0X00	10X00	0x00	0 <u>000</u> 1
339	TELL SIM TO LOOK FOR RACKS  WAIT FOR BUTTON OR RACK	0X0000	0X0000	WR	0X0000	0X00	0X00	0000	0000
340 341	SEND SYNCH COMMAND TO HOST	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X0000	0X00 0X00	0X00 0X00	0X52 0x00	0000
342	WAIT FOR SM COMMAND	000000	1 000000	000000	0X0000 0X0000	0000	0000	0x00	0X00 0X00 0X00
343	WAIT FOR SM COMMAND Branch to Shutdown if Standby Period Exceeded	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	000000	0X00 0X00	10X00	0X00	OXOO
<u>344</u>	I TINCONDITIONALLY BRANCH TO END IDLE	LOXOOOO	1 0X0000	000000 i	L 0X0000	10X00	0X00	0000	10X00_i
345	BRANCH TO WAKEUP LÖNG IF LONG STANDBY PERIOD EXCEEDED Branch to waxeup medium if intermediate standby period	0X0000	0X0000 0X0000	000000	0X0000 0X0000	0X00	0000	0000	0X00_i
346 347	BRANCH INCONDIONALLY TO WAKEUP SHORT	0X0000 0X0000	000000	0X0000 0X0000	0X0000	0X00 0X00	0X00 0X00	0X00 0X00	0X00 0X00
348	BIVINCITORCONDIONALET TO MAILED SHOTT	L XXXXXXX	0X0000 0X0000	000000	1 000000	TOXOO	10000	ÓXÓÓ	T0X00_1
349	TIMEOUT GO TO REAL IDLE	0X0000	0X0000	0X0000	L 0X0000	l oxoo	OX00	OXXO	loxoo !
350_	START PI: TO TEST TUBE;ALSO START WA(WASH)	II	0X0000	0X0000	0X0000	0x11	0x00	0X00	0X00
351 352	START SHEATH FOR BACKGROUND CAPTURE	0X0000 SB	0X0000	_0X0000_	0X0000 0X0000	OxFF	0x00 0X00	0000	0000 i
352 353	WAIT FOR SB COMPLETE	0X0000	0X0000	0X0000	000000	0x31 0xFF	0x00	OXOO	0X00 0X00
354	TIMER DELAY	0X0000	0X0000	0X0000	0X0000	0x00	0x00	0x00	0x00
355	TIMER DELAY TURN OFF EP PUMP ON SPA	EB	0X0000	0X0000	0X0000	0x34	0x00	0X00	OX00
356	I MAIT FOX ER COMPLETE	0X0000	0X0000	_0X0000	0X0000	OxFF	0x00	0X00	L0X00_:
357 358	MOVE PIPETTE DOWN TO ASPIRATE POSITION IN TEST TUBE	TD 0X0000	000000 000000	0X0000	000000	0X13	0x00	0X00 0X00	0X00 0X00
359 359	WAIT FOR TO COMPLETE  START ASPIRATION FOR SAMPLE TRANSFER	AS	I RC	0X0000	0X0000 0X0000	OxFF Ox17	0x00 0x00	0000	10X00
360	START ASPIRATION FOR SAMPLE TRANSFER WAIT FOR AS AND RC COMPLETE	0X0000	000000	000000	000000	0xFF	OxFF	0000	ו ממצמו
361 362	TIMER DELAY	0X0000	0X0000	0X0000	0X0000	0x00	0000	0000	0X00 0X00 0X00
362	TURN OFF EP PUMP ON SPA, SP PUMP ON FBA	EB	EB	1 0X0000	0X0000	0x34	0x00	0X00	OXXX :
363	WATE FOR EB'S COMPLETE (SPA AND FBA)	0X0000	000000	0X0000	0X0000	OxFF	10xFF	0X00	10000
364 365	TO WASTE WELL	TW 0X0000	DB 0X0000	0X0000 0X0000	0X0000 0X0000	0x15 0xFF	0x00 0x00	0X00 0X00	0X00 10X00
366		0X00000	000000	0X0000	000000	0x00	0xFF	0000	10X00 i
366 367 368 369	DRAIN FLOWCELL	T DF	0x0000	000000	0X0000 0X0000	10X26	0x00	ÖXÖÖ ÖXÖÖ	0X00 0X00
368	NAME OF THE PROPERTY OF THE PR	0X0000	0X0000	0X0000	000000	10xFF	0x00	0X00	10 <u>000</u>
369	PRIME SHEATH SUPPLY LINE	PS	0X0000	0X0000	0X0000	0x20	0x00	0000	0000
370 371	PRIME ALL PUMPS	0X0000 PP	0X0000 PC	0X0000	0X0000 0X0000	OxFF OX21	0x00 0x00	0000	0X00 0X00
<del>3/1</del> 372	THIPL ALL FUPIL J	0x0000	0X00000	000000	000000	TOXET TOXEE	10x00 10x00	0X00 0X00 0X00	0000
372 373		1 0X0000	I 0X0000	I 0X0000	1 0X0000	10x00	10xFF	ŎŶŎŎ	<u> 10000</u> ı
374	PRIME INNER LINES #1	I TR	<u> </u>	0X0000	OX0000	0x00	0x24	L0X00	0X00_
375_	ļ	0X0000	0X0000	0X0000	1 0X0000	0x00	LOxFF	OX00	OXOO

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SMITST TOSIA									<del> </del>	<del> </del>	
100000	SMTST	TOSM	TVALUE	TFUNC	SENS	STST	SMSK	END	BRAN	DEST	TRANSLATED PARAMETERS
100000	+ 0 <u>0000</u> 0	<u> </u>	1010000	<u> </u>	070000		<u> </u>	OYOO 1E	<u> </u>	10 <u>0000</u> 0	ΟΧΟΟ ΟΧΟΟ ΙΚΟΛΙΕ ΟΧΟΛΟΟ ΟΧΟΛΟΟΙ
100000	000000					0000			000000		0X00, 0X00, 0X00 1F, 0X0000, 0X0000}.
	10X0000	l	0X0000	000	000000	000	0X00	0X001F	0X0000	0X0000	0000, 0000, 00001E 000000, 000000
1,000,00	10X0000					0000			0X0000		0000, 0000, 000011, 000000, 00000000000
100000		<u> </u>	00000			0000				00000	OXOO, OXOO, OXOO IF, OXOOOO, OXOOOO),
100000	10X0000	<u> </u>	000000						000000		0X00. 0X00. 0X001F. 0X0000. 0X0000}.
1000000	0X0000								0X0101		
1000000	OX0000	0x36	0X0049	0x04		0000			000000	0X0000	
TAYLONG		<del></del>				0X00					
100000		· · · · · · · · · · · · · · · · · · ·				0000					
TOMORD	10X0000	<del></del>		0004		0000	0000			333	I 0X00 0X00 0x4040 0x0040 333}
100000	i 0X0000		10X0000	0X00	0X0000	1 0X00	0X00	0x4040	0x0040	334	0X00, 0X00, 0x4040, 0x0040, 334},
	10X0000	0	_0X0000	OX00	0X0000	0X00	0X00	0X001E	0X0101	330_	0X00, 0X00, 0X001F, 0X0101, 330},
100000	i 0X0000	0x29	0x0020	0x03	0X0000	0000	0000	000000	0x0000	163	0X00, 0X00, 0X0000, 0x0000, 163},
0.0000	i 0X0000	0x28			000000	OXOO	0X00		0x0000	163	0X00, 0X00, 0X0000, 0x0000, 163},
OKROPO		<del>                                     </del>		1 0X04 0X00		1 0000		1 0X0000 1 0X001F	1 0X0000		
OXX0000		0x2c				0000			0000X0		0000,0000,000101,000000,0000000
0x0000		<del></del>				0000					
DIXCODO   0;2C   DIXCODO   DIXCO   DIXCODO	<del></del>										
0.00000	T 0X0000		10X004C	1 0000	00000	OXOO	OXOO	0X0101	100000	000000	1 0X00, 0X01, 0X0000, 0X0009, 343).
0x0000				0x42		OXOO		000000	0x0080	0X0000	0X00, 0x00, 0X0000, 0x0080, 0X00003
OKODOO	10X0000	<del>)                                    </del>	0X0000	0X00		0x05		0x0101	0X0001		
OX0000	10X0000	l ŏ		0000							
0X0000	10X0000	1 8	<u> </u>			0x05		0x0101			
10X0000	0X0000	Ŏ	OX0000	0000	0X0000	0X00	0X00	0x0000	0x0101	0X5753	0X00, 0X00, 0x0000, 0x0101, 0X5753}.
0x0000		<del></del> -									
0x0000			000000	0,000	0,0000	0,000	0000		100000		1 0X00, 0X00, 0X001F, 0X0000, 0X0000),
0x0000		0x32		<del>1 8888 -</del>		<del>1 8888 -</del>	1 8888 -	<del>1 88881F</del>	18X8888	<del>  XXXXXX</del>	0000; 0000; 00001F, 000000; 0000000;
0x0000	10X0000	0x32	000000	0X00	0X0000	0X00			0X0000	0X0000	0X00, 0X00, 0x001F, 0X0000, 0X0000}.
10x0000	000000		000000	1 0X00			0000 0000		10X0000		
10x0000				1 0142			1 0000				
0X0000	10X0000	<u> </u>	T0X0000	00X0	0X0000	0X00	T 0X00	T-0X001F-	0X0000	0X0000	1 0X00, 0X00, 0X001F, 0X0000, 0X00003.
000000	0X0000	0x32									0000, 0000, 00001F, 000000, 000000},
OXOOOO	10X0000	1 0x32 0v22	0,0000	0000	0,0000	1 0X00	1 0000	1 00015	100000		1 0X00, 0X00, 0X001F, 0X0000, 0X00000},
OXOOOO	+ 0X0000		100000	0000	00000	0000	1 0000	0x8606	1000000	1 000000	0X00 0X00 0x8606 0X0000 0X00003
OXOOOO	<u>10X0000</u>	0x32	10x0065	0x42	0X0000	0X00	0X00	1 0X0010	T0X0000	OX0000	1 0X00, 0X00, 0X0010, 0X0000, 0X0000
OXOOOO			000000		0X0000		1 0 <u>000</u>		10X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X00000},
0X0000											0X00, 0X00, 0X8606, 0X0000, 0X0000}, 0X00 0X00 0X00 0X001F 0X0000 0X00003
0X0000	. 0X0000	0x32	000000	0X00	0X0000	0000	0000	0X001F	0X0000	000000	0X00, 0X00, 0X001E 0X0000, 0X00003
0X0000								0X001F			0000, 0000, 0001F, 000000, 0000000000000
000000   000000	100000			OVANO NAVA						000000	0X00, 0X00, 0X001F, 0X0000, 0X00003,
0X0000	10X0000	0x32	0X0000	0X00	0X0000	0X00	OX00	OX001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X00001,
0X0000	10X0000		0X0000	0X00	0X0000	T 0X00	QXXX	0X001F	10X0000	0X0000	0X00. 0X00. 0X001F. 0X0000. 0X00003.
10X0000	100000	1 UX32 -	0,0000				1 0000	1 000015		1 000000	1 0X00, 0X00, 0X001F, 0X0000, 0X0000}, 1 0X00, 0X00, 0X001F, 0X0000, 0X00001
OXO000	10X0000		000000	0000			0000		000000		0X00, 0X00, 0X001F, 0X0000, 0X00003
10X0000   0x32   0X0000   0X00   0X000   0X00   0X00   0X001F   0X0000   0X0000   0X00, 0X00, 0X00   0X0000, 0X00000},	: 0X0000	.0x32	000000	0X00	0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000}.
	1 0X0000	0x32	10X0000	)	0X00000	0X00	0X00	0X001F	T0X0000	1 0X0000	0x00, 0x00, 0x001F, 0x0000, 0x0000).

18H1

377   RINE NINE LINES ##2	STATE INDE	STATE DESCRIPTION	SPACMD	FBACMD	STNCMD	OBACMD	SPASTAT	FBASTAT	STMSTAT	OBASTAT
STATE   STAT	376		0X0000		0X0000	<u>0</u> X00000				<u>0000</u>
STATE   STAT	3//I	PRIME INNER LINES #2		0X0000 0X0000	000000	000000	OxFF	0x00 0x00	0000	0X00 0X00
281   DEBUBBLE	<u>379</u>	PRIME ASPIRATION LINE	TR	PA	ÖXÖÖÖÖ	ÖXÖÖÖÖ	ŎXOO	0x26	ÖXÖÖ	0X00 0X00 1
SEAL DEFUNDER   COCOO   COCOO   COCOO   COCOO   COCO   C	3801 381			0X0000 0X0000	000000	1 0X0000 0X0000	OXFF OXFF	0xFF 0x00		0X00 0X00
TINN ON RINSE PIMP AND RINSE PIPETITER   R   R   C   000000 0,00000 0,	3821	DEBUBBLE	0X0000	I DF	000000	1 0X0000	0X00	0x30	OX00	0X00 I
1885	383	TIIDN AN DINCE DIMP AND DINCE DIPETTER		I OXOOOO	1 0X0000 1 0X0000	0X0000 0X0000	1 0x00 1 0x00	0xFF   0x25	<u>0</u> 000	0X00 0X00
SECOND   S	- 385 I	TOTAL OF THE STATE	0X0000	OX0000	0X0000	0X0000	0xFF	0x00	1 0X00	0X00 i
1835	386	CLEAD DIDETTED	<u> 0X0000</u>	1 0X0000	000000	0X0000 0X0000	0x00 0x16	OXFF		0X00_i
MOVET TO NEXT IUBE POSTION	388	CLLAN LILLIAN	000000	OX0000	000000	000000	OXFF	0000	0X00	OXOO
HILDY   SLEEP    SURVEY   SLEEP    SURVEY   SU	389	MANYE TA MEYT TIDE DACITIAN	0X0000	0X0000	0X0000	0X0000	0x00 0x00	OXFF	0X00 0X32	0X00 0X00
HILDY   SLEEP    SURVEY   SLEEP    SURVEY   SU	391	BRANCH TO "16" (GO RESUME)	000000	OX0000	0X0000	OX0000	0000	OX00	0X00	OX00_
HILDY   SLEEP    SURVEY   SLEEP    SURVEY   SU	392	END WA (WASH)	0X0000	1 000000	0000X0	000000	0X00	0X00	0X00	0000
START SS. REST HLCS   NEW CHE UNITS (LEAR (STMC) RETURNS 'L' OR I'-)   OX0000   OX0000   OX0000   OX000   OX	3931 394	STAKT ZZ (SLEEP) FND 77 (SLEEP)	- <del>XXXXXXX</del>	1 0X000X	<del>  XXXXXXX</del>	<del>  XXXXXX                              </del>	1 0x00	0x00	1 8888	0X00 0X00
100   100	395	START SS: RESET HLCS	RE	RE	RE	RE	OXFF	OXFF	OXFF	OXFF !
100   100		MAKE SURE OUTPUT IS CLEAK (STM:IC KETUKNS 'T' OK 'F')	000000 000000			000000 1 000000				0X00 0X00
100   100	<del>398</del>	GOT 'F'? IF SO, BRANCH TO END OF GO SEQUENCE	0x0000	0x0000	0x0000	0x0000	0x00	QXQQ	0x46	
100   100	399	LOOP BACK TO LOOKINGFORT 1	000000	000000	000000	00000	0000	1 0000	OXUU_	0X00 0X00
100   100	401	TELL STM TO FIND RACK	PH	0X0000	M1	0X0000	0X00	0X00	0X00	0X00 I
100   100	402	IF 31 FROM STM GOTO WAITUNTILSTMATIDLE_SS	0X0000	0X0000	0X0000	0X0000	0000	0X00	0X31 0X30	0X00 0X00
405 MATILATILISTMATIDLE SS (WAIT FOR SPA IDLE AS WELL) 0X0000 0X0000 0X0000 0X000 0X00 0X0 0X	403 404	NO KACK ENUSSBRANCHTARGET	0X0000	0X0000	0X0000	0X0000	0X00	0X00	0000	0X00 i
10   10   15   10   10	405	WAITUNTILSTMATIDLE SS (WAIT FOR SPAIDLE AS WELL)	00000X	1 0X0000	1 0X0000	1 0X0000	l OxFF	0000	I OXFF	0X00 I
10		<u>  MOVE 10 NEXT TUBE POSITION (FIRST TUBE ASPIRATE POSITION)                                    </u>	TT	0X0000	OXOOOO	0X0000	0x11		0X00	0X00
410	408		ÓX0000	0X0000	0X0000	0X0000	0xFF	0x00	0X00	0X00
11   IMPR DELAY	409 410	STAKT SHEATH FOR BACKGROUND CAPTURE  WAIT FOR SR COMPLETE	0X0000	00000	000000	1 000000	OxFF		0000	0000 i
415 WAIT FOR 1D COMPLETE  416 START ASPIRATION FOR SAMPLE TRANSFER  AS RC 0X0000 0X0000 0X17 0X00 0X00 0X00 0X17 0X00 0X00	411	TIMER DELAY	0X0000	OXO000	0X0000	0X0000	0x00	0x00	0x00	0x00 i
415 WAIT FOR 1D COMPLETE  416 START ASPIRATION FOR SAMPLE TRANSFER  AS RC 0X0000 0X0000 0X17 0X00 0X00 0X00 0X17 0X00 0X00	412	TURN OFF EP PUMP ON SPA	I EB	0X0000	000000	0X0000	0x34 0vFF		0X00 0X00	0X00 0X00
415 WAIT FOR 1D COMPLETE  416 START ASPIRATION FOR SAMPLE TRANSFER  AS RC 0X0000 0X0000 0X17 0X00 0X00 0X  417 WAIT FOR AS AND RC COMPLETE  418 TIMER DELAY  419 TILRN OFF EP PLIMP ON SPA SP PLIMP ON FRA  420 WAIT FOR EB'S COMPLETE (SPA AND FBA)  421 TO WASTE WELL  421 TO WASTE WELL  422 0X0000 0X0000 0X0000 0X0000 0X0000 0X0000 0XFF 0X00 0	414	MOVE PIPETTE DOWN TO ASPIRATE POSITION IN TEST TUBE	1 10	0X0000	0X0000	0X0000	0X13	0x00	0000	T 0X00 !
A17   WAIT FOR AS AND RC COMPLETE		WAT FOR TO COMPLETE		0X0000	0X0000	000000	0xH	0x00	0X00	0X00 I
18   TIMER DELAY   0X0000   0X0000   0X0000   0X0000   0X00   0		I WAIT FOR AS AND RECOMPLETE	000000		000000	0X0000		OXFF	0X00	OX00
10   10   10   10   10   10   10   10	418	TIMER DELAY	0X0000	0X0000	0X0000	0X0000			0000	0X00 0X00
10   10   10   10   10   10   10   10		I TURN OFF EP PUMP ON SPA, SP PUMP ON FBA.			0X0000	0X0000			OXXX	OXOO
100000   000000	421	TO WASTE WELL	TW	T DB	OX0000	0X0000	0x15	0x00	0X00	OX00
A25   OX0000	422 423				000000	000000			000	0X00 0X00
\$\frac{426}{427} \ CLEAR PIPETTER/HOME CP AND SP/MOVE TO NEXT TUBE   CP   HC   MN   0X0000   0X0E   0X000   0X0000   0X16   0X00   0X000   0X0000   0X16   0X00   0X000   0X0000   0X	424	TURN ON RINSE PUMP AND RINSE PIPETTER	TR	RP	0X0000	0X0000	0X00	0x25	ÖXÖÖ	0000
A27   CLEAR PIPETTER/HOME CP AND SP/MOVE TO NEXT TUBE   CP   HC   MN   0X0000   0X16   0X00   0X000   0X000   0X0000	425 426			0X0000 0X0000	000000 000000	00000			1 0X00 0X00	0X00 0X00
0X0000	427	CLEAR PIPETTER/HOME CP AND SP/MOVE TO NEXT TUBE	CP	HC	MN	0X0000	0X16	0X00	0X00	0X00
0X0000	428			1 0X0000		1 0X0000			OX00	0X00 0X00
431 MAKE SURE SPA AND STM IDLE 0x0000 0X0000 0X0000 0X0000 0XFF 0X00 0XFF 0	430		000000	0X0000	000000	0X0000	0x00	0x00	ÖXFF	0X00
4371 SENTICK TO SIM: HOME PIPE TIEK 1 PK 1 OXOUND 1 CK 1 OXUUUU 1 OXUU 1 OXUU 1 OXUU	431	MAKE SURE SPA AND STM IDLE	0x0000	OX0000	0X0000	0X0000			OXFF	0X00 0X00
433 HOME STM CARRIERS 0X0000 0X0000 0X0000 0XFF 0X00 0XFF 0		I SENDAK TO STW. HOME PIPETTEK		000000		000000				0000
434 FND OF SS SEQUENCE 0X0000 0X0000 0X0000 0X0000 0X00 0X00	434	END OF SS SEQUENCE	0X0000	0X0000	000000	0X0000	0000	0000	0X00	0X00
!	435	I I	T 0X0000		<u> </u>	T 0x0000	<u> </u>	1 0,000	T 0x00	0000

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000000 0x32 000000 0x00 0x000 0x000 0x00 0x								, .0			IIU. UIL
March   Marc	SMIST	TOSM	TVALUE	TFUNC	SENS	STST	SMSK	END	BRAN	DEST	TRANSLATED PARAMETERS
March   Marc	700000	_ <u>\^2</u> 2	- DVOOO	עסעע –	ΛΥΛΛΛΛ	0700	- 0V00 -	TOYOUTE -	1		 
100000											
0.00000	0X0000	0x32	000000	0X00	0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000}.
0.0000	OX0000			0000				0X001F		0X0000_	
0.00000						0000				00000	
000000   0.32				0000		0000					
000000	I 0X0000	0x32	0X0000	0X00	0X0000	0X00	T 0X00	0X001F	0X0000	0X0000	OXOO, OXOO, OXOO1F, OXOOOO, OXOOOO).
000000   0-32						0X00					[ 0X00; 0X00; 0X001F, 0X0000; 0X0000];
100000						000					
000000											
000000	OX0000_	0x32	000000	0000	000000	0000	Loxoo	0X001F	000000	000000	0X00' 0X00' 0X001F 0X0000' 0X0000\'
000000										0X0000	
1	1 000000						1 0300				I OXOU, UXUU, UXUUTE, UXUUUU, UXUUUU), I OYOO OYOO OYOOOO OYO1O1 Ov3136\
0.00000 0.FF 0.00000 0.000 0.00000 0.000 0.000 0.00000 0.00000 0.0000 0.0000 0.000000	. 0X0000	· · · · · ·									0X00, 0X00, 0X0000, 0x0000, 0x00001;
1900000	i 0X0000	0xFF	0X0000	0000	0X0000	0X00	0X00	0x0000	0x0080	000000	0X00', 0X00', 0x0000', 0x0080', 0X00000\\.
100000											
1000000											I OXOO, OXOO, OXCA4A, OXOOOO, OXOOOO),
100000		1									
Common   C	: 0X0000		0000X0 I 0	0X00		0X00	0X00		0x0008	434	0X00, 0X00, 0x0101, 0x0008, 434\
\$\frac{\chicket}{\chicke	0X0000	+									
1,00000											
100000				0000			1 0X00		0X0008		T 0X00, 0X00, 0X0101, 0X0008, 405}.
000000	.0X0000		0 0X0000	0X00	0X0000	0X00	0X00	OX0101	8000X0	434	0X00, 0X00, 0X0101, 0X0008, 434}.
TOXICCO	1 0X0000				000000	0000				402	
0.0000											
\$\capacitago   0x0000   0x000   0x000   0x000   0x00   0x000   0x0000   0x0000   0x0000   0x0000   0x000   0x000   0x0000   0x000   0x	10X0000		0 OXOOOO	0X00		0X00			0X0000	0X0000	T 0X00, 0X00, 0X001F, 0X0000, 0X0000).
000000	.0X0000			0X00		0X00	0X00				
0x0000	+ 0X0000	<del></del>									
0x0000											1 0x00, 0x00, 0x0000, 0x0000, 0x00003.
0X0000	10X0000		O 0X0000	0X00	0X0000	0X00	0X00	0x001F	0X0000	0X0000	0X00, 0X00, 0x001F, 0X0000, 0X0000).
000000	1 0X0000			1 0000	000000	1 0000	1 0000	<u> </u>	1 000000	<u> </u>	<u> </u>
0X0000		<del>                                     </del>									
0X0000											
0X0000	i 0X0000		01 0X0000	0X00	0X0000	1 0X00	0X00	0x8606	0X0000	0X0000	0X00, 0X00, 0x8606, 0X0000, 0X0000},
0x0000	10X0000	-	0   0x0056	1 0x42	1 0X0000	1 0X00	1 0X00 1 0X00	<u> </u>	1 0X0000	000000 1 000000	
OXOCOC											1 0X00, 0X00, 0X8606, 0X0000, 0X00003
OXOCOC	OX0000		0 0X000C	) OXOO	0X0000	0X00	OX00	0X001F	0X0000	0X0000	OXOO, OXOO, OXOO 1F, OXOOOO, OXOOOOS,
\( \begin{array}{c c c c c c c c c c c c c c c c c c c	OX0000		0 0X000C	) OX00	0X0000	0X00	OX00		L 0X0000	0X0000	
OXO000	1 0X0000	+	01 0X00000	1 0X00 1 0Y00	0X0000	1 0X00 1 0YAA	0X00	UXUO1E NYAA1E	1 0X0000 1 0X0000	000000 000000	1 0X00 0X00 0X001F 0X0000 0X0000},
0x0000											
0.00000	000000		0 0X000C	0X00	0X0000	1_0X00_	0X00	0X001F	0X0000	000000	OX00, 0X00, 0X001E 0X0000, 0X0000;
0X0000	10X0000		000000	) <del>  0</del> 000	1 0X0000	1-0 <u>x00</u> -	1 0X00		1 0X0000	1-0x00000-	1 0X00, 0X00, 0X001F, 0X0000, 0X0000)
10X0000         0         0X0000         0X00         0X0000         0X00         0X00         0X000         0X000         0X000         0X0000	TOYOOOO	<del>                                     </del>	0 00000	)	0,00000	H OXOO	1 0X00 0Y00	0X001F	1 0X0000 1 0X0000	0,00000	1 0X00, 0X00, 0X001F, 0X0000, 0X0000},
0X0000					000000	00X0	0X00		OX0000	0X0000	0X00, 0X00, 0X001E 0X0000, 0X0000}
0x0000	10X0000		0 0X0057	7 0x44	0X0000	0X00	0000	Ox8AOA	OX0000	0X0000	0X00, 0X00, 0x8A0A, 0X0000, 0X0000),
000000			01 000058	31 Ox44	1 0X0000	11 0X00				0X0000	
$\frac{1000000}{100000} + \frac{1000000}{10000} + \frac{00000}{10000} + \frac{000000}{100000} + \frac{000000}{100000} + \frac{000000}{100000} + \frac{0000000}{100000} + \frac{00000000}{1000000} + \frac{0000000000000}{100000000} + 00000000000000000000000000000000000$					00000	11-0 <u>000</u> -	1 0000	OXOO1F	1 000000		- 0x00, 0x00, 0x001F, 0x0000, 0x00003, - 0x00, 0x00, 0x001F, 0x0000, 0x00003,
<u>,</u> + + + + + + + + +			0 0X0000	) <u>0</u> 000							
- BIT	1014	+		+	<del></del>		+	1		<del>,</del> † – – –	·
	.81,1								<b>₩</b> 002	-	

STAT	STATE DESCRIPTION	SPACMD	FBACMD	STMCMD	OBACMD	SPASTAT	FBASTAT	STMSTAT	OBASTAT
4 <u>36</u> 4 <u>37</u>		0 <u>00000</u>	_0X <u>0</u> 000	<u>0</u> X0000	<u>0</u> X0 <u>0</u> 00	_0X <u>0</u> 0	000	<u>0000</u>	<u>0000</u>
43/	UNCONDITIONALLY BRANCH TO GO	0X0000 0X0000	00000	0X0000	000000	0000	0000	0000	0X00 0X00
438 439	END OF SW	0X0000	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X00 0X00	0X00 0X00	0X00 0X00	0X00 ;
	MW WAXEUP FROM INTERMEDIATE STANDBY PERIOD - TURN STROBE	0X0000	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X00 0X00	0X00 0X00	0X00 0X00	0X00 0X00
441 442		0X0000	0X0000	0X0000	OX0000	0X00	0X00	0X00	0000
443	UNCONDITIONALLY BRANCH TO GO	0X0000	0X0000	0X0000	OX0000	0X00	1 0X00	0X00 0X00	0000
444 445	END OF MW LW WAKEUP FROM LONG STANDBY PERIOD - TURN STROBE ON	000000	000000	0X0000 0X0000	0X0000 0X0000	0000	0X00 0X00	0X00	0X00 0X00
446	2.7 (1.00)	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	I 0X0000	0X00 0X00	0X00	0X00	0X00
447 448	UNCONDITIONALLY BRANCH TO GO	0X0000 0X0000	000000	000000	000000	0000	0000	0000	0X00 0X00
449	END OF LW	0X0000	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X00 0X00	0X00 0X00	0X00 0X00	1 0X00 !
	SD SHUTDOWN - AUTO SHUTDOWN AFTER STANDBY TIMER EXPIRED	0X0000 0X0000	1 0X0000	0X0000	0X0000	0X00 0X00	0X00 0X00	0X00 0X00	0X00'
451 452	TURN STROBE OFF	0X0000	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X00	0X00	0X00	0X00 0X00
453	END OF SD	0X0000	1_0X0000	L 0X0000	OXODOO	0000	OX00	T 0X00	0000
4 <u>54</u> 455	START DL (DILUENT); TO TEST TUBE	0X0000	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0x11 0xFF	0x00 0x00	0X00 0X00	0X00 0X00
456	START SHEATH FOR BACKGROUND CAPTURE	SB	OX0000	OX0000	0X0000	0x31	0X00	0X00	0X00
457	WAIT FOR SB COMPLETE	0X0000	0X0000	OX0000	0X0000	l OxFF	0x00	0X00	0X00
458 459	TIMER DELAY TURN OFE EP PUMP ON SPA WAIT FOR EB COMPLETE	OXOOOO EB	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0x00 0x34	0x00 0x00	0x00 0X00	00x0 0000
460	WAIT FOR EB COMPLETE	0X0000	1 0X0000	0X0000	000000	1 OxFF	0x00	0X00	_0X00I
461 462	MOVE PIPETTE DOWN TO ASPIRATE POSITION IN TEST TUBE WAIT FOR TD COMPLETE	TD 0X0000	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X13 0xFF	0x00 0x00	0X00 0X00	0X00
463	START ASPIRATION FOR SAMPLE TRANSFER	AS	RC 0X0000	0X0000 0X0000	000000	0x17 0xFF	0x00	0X00 0X00	0X00
464	WAIT FOR AS AND RC COMPLETE	000000	0X0000	0X0000	0X0000 0X0000	0xFF 0x00	0xFF 0X00	0X00 0X00	0X00 0X00
465 466	TIMER DELAY Turn off ep pump on Spa, Sp pump on FBA	OXOOOO EB	OXOOOO EB	0X0000 0X0000	0X0000	0x34	0x00	0000	0000
467	WAIT FOR EB'S COMPLETE (SPA AND FBA) TO WASTE WELL	0X0000	0X0000	0X0000	0X0000	l OxFF	OxFF_	I 0X00	0000
468 469	10 WASTE WELL	TW 0X0000	DB 0X0000	0X0000 0X0000	0X0000 0X0000	0x15 0xFF	0x00 0x00	0X00 0X00	0X00 0X00
470		0X0000	000000	0X0000	0X0000	0x00	OxFF	0X00	0X00
471	TURN ON RINSE PUMP AND RINSE PIPETTER	TR	RP OYOOOO	0X0000 0X0000	0X0000	0X00	0x25	0X00 0X00	0X00 0X00
4 <u>72</u> 473		0X0000 0X0000	0X0000 0X0000	000000	00000	0xFF 0x00	0x00 0xFF	0000	0000
473 474	CLEAR PIPETTER/HOME CP AND SP	CP CP	I HC	0X0000 0x0000	0X0000 0X0000	0x00 0X16	0X00	0X00	0X00
475 476		0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000	OXFF Ox00	0x00 0xFF	0X00 0X00	0X00
477		0X0000	000000	0X0000	0X0000	0x00	0x00	ÖXFF	0000
	RETRIEVE TUBE NUMBER; BRANCH TO KILL ("KL") IF 10 (0X0A)	0,0000	070000	070700	040000	0,400	٥٧٥٥	0.04	0400
478 479	TERM OTHERWISE   Move to Next Tube Position	0X0000 0X0000	0X0000 0X0000	0X0708 MN	0X0000 0X0000	0X00 0X00	0X00 0X00	0x0A 0X32	0000 0000
480	FBRANCH TO "16" (GO RESUME)	0X0000	0X0000	0X0000	0X0000	OX00	0X00	0X00	OX00
481	END OF DE SEQUENCE   CTABY VI /VII V. CENIO OD TO CTM, UC TO EDA 1 (240, UOME	0X0000	0X0000	0X0000	0X0000	0X00	0X00	OX00	OX00
482	END OF DE SEQUENCE START KL (KILL); SEND CR TO STM; HS TO FBA+C240; HOME PIPETTOR; FLASH STANDBY	PH	l <sub>HS</sub>	CR_	0x0000	0x12	0x21	OX33	00X0
483	I FLASH STANDBY	0x0000	H\$ 0X0000	0X0000	0X0000	0x00	0x00	0X00	0X00
ĀQĀ	SEND SMCSISINSHUTDOWN MESSAGE TO SM; NO EXIT CONDITION!	0x0000	0X0000	0X0000	0X0000	0x00	1 0x00	0X00	0X00
485	END OF KL SEQUENCE	0X0000	0X0000	0X0000	0X0000	0X00	0X00	OX00	0X00_I
486	TBX BACKGROUND FRROR EXII	EB	EB	0X0000	0X0000	0000	0X00	0X00	OX00
4 <u>8/</u>	DUMMY	OX0000	0X0000	0X0000	0X0000	0X00	OX00	0X00	0000   CI B

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SMTST	TOSM	TVALUE	TFUNC	SENS	STST	SMSK	END	BRAN	DEST	TRANSLATED PARAMETERS
0X0000		<u>000000</u>	0X00	0X0000	0X00	0000	0X0101	0X0000	0X0000	0X00, 0X00, 0X0101, 0X0000, 0X0000},
0X0000	0	0X0000	0X00	0X0000	0X00	0X00	0X0101	0X0000	0X0000	0X00, 0X00, 0X0101, 0X0000, 0X0000},
0X0000	0	0X0000	OXOO	0X0000	0000	0000	0x0000	0x0101	0X474F	0X00, 0X00, 0X0000, 0X0101, 0X474F,
10X0000	0	0X0000 0X0000	0X00 0X00	0X0000 0X7046	0X00 0X00	0X00 0X01	0X0101 0X0101	0X0000 0X0000	0X0000 0X0000	0X00, 0X00, 0X0101, 0X0000, 0X0000}, 0X00, 0X01, 0X0101, 0X0000, 0X0000},
10X0000	0	0X0000	0X00	0X0000	0X00	0X00	0X0101	0X0000	0X000X	0X00, 0X00, 0X0101, 0X0000, 0X0000},
1 0X0000	l ö	0X00000	OXOO	0X0000	0X00	0000	000101	0X000X	-0X000X	0000, 0000, 000101, 000000, 000000},
T0X0000	l ŏ	000000	OXOO	0X0000	0X00	OXXO	0x0000	0x0101	0X474F	0X00, 0X00, 0x0000, 0x0101, 0X474F <sub>{</sub> ,
+0X00000	0	000000	0000	OX0000	0000	0X00	0X0101	0X0000	0X0000	0X00, 0X00, 0X0101, 0X0000, 0X0000},
OX0000	1 0	0X0000	OXOO .	0X7046	0000	0X01	000101	0X0000	0X0000	0000, 0001, 000101, 000000, 000000},
1 0X0000	0	0X0000	0X00	0X0000	0000	0000	0X0101 0X0101	0X0000 0X0000	0X0000 0X0000	0X00, 0X00, 0X0101, 0X0000, 0X00001, 0X00, 0X00, 0X0101, 0X0000, 0X00001,
10X0000 10X0000	0	0X0000	0X00 0X00	0X0000 0X0000	0X00 0X00	0X00 0X00	0x0000	0x0101	0X474F	0X00, 0X00, 0X0101, 0X0000, 0X0000}, 0X00, 0X00, 0X0000, 0X0101, 0X474F},
1 0X0000	1 8	OXOOOO	ÖXÖÖ	0X0000	- ÖXÖÖ	<del>l ŏxŏŏ</del>	000000	ŎŶŎŎŎŎ	0X0000	0000, 0000, 000001, 000000, 000000},
10X0000	t ŏ	OXOOOO	ÖXÖÖ	0XB030	0x05	0x43	0x0001	0X0101	453	
: 0X0000	0	0X0000	0X00	0X7000	0X00	0X01	0X0101	0X0000	0X0000	0X00, 0X01, 0X0101, 0X0000, 0X0000},
OX0000	Ŏ	0X0000	0X00	0X0000	OXOO	0X00	0X0101	0X0000	0X0000	0X00, 0X00, 0X0101, 0X0000, 0X0000},
0X0000	0.24	0X0000		0X0000 0X0000	0X00 0X00	0000	0X0101 0X001F	000000	000000	0X00, 0X00, 0X0101, 0X0000, 0X0000}, 0X00, 0X00, 0X001F, 0X0000, 0X0000},
10X0000 10X0000	0x34 0x32	0X0000 0X0000	0X00_	0X0000	0000	0X00 0X00	0X001F	0X0000 0X0000	0X0000 0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000},
10X0000	0x32	000000		1 0X0000	ÖXÖÖ	0X00	0x001F	0X0000	0X0000	0X00, 0X00, 0x001F, 0X0000, 0X0000}.
T0X0000	0x32	000000	ÖXÖÖ	TÖXÖÖÖÖ	ÖXÖÖ	ÖXÖÖ	0X001F	ÖXÖÖÖÖ	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000},
OX0000	0x32_	0X005A	0x42	0X0000	0x00	0x00	0x0000	0x0000	0X0000	0x00, 0x00, 0x0000, 0x0000, 0X0000},
0X0000	0x32	0X0000	0X00	0X0000	0X00	0000	0x001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X00001,
0X0000	0x32	0X0000		0X0000	0X00	0000	0X001F	0X0000	0X0000	0000, 0000, 0001F, 000000, 000000},
10X0000	0x32 0x32	0X0000 0X0000		0X0000 0X0000	0X00 0X00	0X00 0X00	0X001F 0X001F	0X0000 0X0000	0X0000 0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000}, 0X00, 0X00, 0X001F, 0X0000, 0X0000},
. 0X0000	0x32	000000		000000	OXOO	TÖXÖÖ	00001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000},
1 <u>000000</u>	0x32	ÖXÖÖÖÖ	ÖXÖÖ	ÖXÖÖÖÖ	ÖXÖÖ	ŎXŎŎ	0x8606	OX0000	0X0000	0X00, 0X00, 0x8606, 0X0000, 0X0000),
10X0000	0x32	0x0067	0x42	0X0000	0X00	0000	0X0010	0X0000	000000	0X00, 0X00, 0X0010, 0X0000, 0X0000},
10X0000	0x32	0X0000		0X0000	0000	0000	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X00000
10X0000	0x32	000000		0X0000	0X00 0X00	0X00	0X8606 0X001F	0X0000 0X0000	0X0000 0X0000	0X00, 0X00, 0X8606, 0X0000, 0X0000},   0X00, 0X00, 0X001F, 0X0000, 0X0000},
0X0000 0X0000	0x32 0x32	0X0000 0X0000	0X00	0X0000 0X0000	1 - XXXX	0X00 0X00	T OXOOTF	0X0000	0X0000	OXOO; OXOO; OXOO   F; OXOOOO; OXOOOO{;
OXO000	0x32	1 0X0000		000000	1 0X00	1 0X00	0X001F	0X0000	0X00000	0X00, 0X00, 0X001F, 0X0000, 0X0000},
0X0000	0x32	0X0000	0X00	T 0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000).
1 0X0000	0x32	0X0000		0X0000	0X00	0X00	0X001F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000},
10X0000	0x32	000000	0000	0X0000	1 0X00	0000	1 0X001F	000000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000).
0X0000 0X0000	0x32 0x32	0X0000 0X0000		0X0000 0X0000	0X00 0X00	0X00 0X00	0X001F 0X001F	0X0000 0X0000	0X0000 0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000}, 0X00, 0X00, 0X001F, 0X0000, 0X0000},
; 0X0000	0x32	0X0000		000000	0X00	- OXOO	OXOO1F	0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000
0X0000	0x32	OXOOOO		1 <u>0</u> 00000	T ÖXÖÖ	ÖXÖÖ	T ÖXÖÖİF	0X0000	ÖXÖÖÖÖÖ	0X00, 0X00, 0X001F, 0X0000, 0X0000},
		1,000	1							
1 0X0000	0x32	0X005D	0x44	0X0000	0000	0000	0X0101	0X0008	0x4B4C	0X00, 0X00, 0X0101, 0X0008, 0x4B4C}.
10X0000		0X005E		0X0000	0X00	0000	0X001F	0X0000	0X0000	0000, 0000, 00001F, 000000, 0000005
0X0000		0X0000 0X0000		0X0000 0X0000	0X00 0X00	0X00 0X00	0X0000 0X001F	0X0101 0X0000	0x3136 0X0000	0X00, 0X00, 0X0000, 0X0101, 0x3136}, 0X00, 0X00, 0X001F, 0X0000, 0X0000},
1 000000	ļ <u>U</u>	0,0000	UNUU	UNUUUU	0,00	0,00	UNUUTI	0,0000	000000	0,000, 0,000, 0,00011, 0,00000, 0,000007,
i 0X0000	1 0	0X005F	0x44	0x0000	0x00	0000	0x8E0E	0X0000	0X0000	0x00, 0X00, 0x8E0E, 0X0000, 0X0000},
, 0X0000	0x00	0x0000		0x6001	0x10	ÖXÖÖ	0x0101	ÖXÖÖÖÖ	0X0000	0x10, 0X00, 0x0101, 0X0000, 0X0000},
1					1					AVAA AVAA A AAAA AVAAAA
0X0000		0x0000		000000	OXXX	OXXX	0x0000	0X0000	0X0000	0X00, 0X00, 0x0000, 0X0000, 0X0000},
10X0000				0X0000	0000	0000	0X001F	0X0000 0X0000	0X0000	0X00, 0X00, 0X001F, 0X0000, 0X0000}, 0X00, 0X00, 0x0000, 0X0000, 0X0000},
0000X0 I	1 0		0x44 0X00	0X0000 0X0000	0X00 0X00	0X00 0X00	0x0000 0X001F	0X0000	0X0000 0X0000	0X00, 0X00, 0X0000, 0X0000, 0X0000}, 0X00, 0X00, 0X001F, 0X0000, 0X0000},
UNVUVU	<del> </del>	1 AVOVO	1 0000	1 0,0000	1-0000	1 0000	1 0,001	1 0,000	1 0/10000	T AND THE PROPERTY OF THE PROP

27/40 400 FIG.9A1 412 414 416 408 410 402 406 404 STATE DESCRIPTION ENERGIZED FIRST SECOND SENSOR ΕP (VALUES ONLY) MOTOR | MOTOR SELECT 80FF σ 80FF OTDEE 0 0000 80FF J7 AIR CHRG VLV, EBV3, 80FF 80FD 8441 1 "TT" HOME EVACUATION PUMP / ROTATE OUT TO TUBE 0000 860C 80FF 80FF 2 PLACE ROLLER ON TUBE (EP -45 DEG) EBV3. 80FF 0 0000 80FF 80FF 0000 3 DUMMY "PH" - HOME VERTICAL TO LIFT PIPPETTER AND SEND 80FF 80FF 80FF 80FE 0000 PIPPETER BACK TO BACK SENSOR THEN TO WASTE WELL HOME ROTATIONAL MOTOR TO BACK SENSOR 80FF 80FF 80FE 80FF 0000 6 ROTATE OUT -3 DEG TO WASTE WELL 80FF 80FF 8440 80FE 0000 J7 AIR CHRG VLV 80FF 80FF 10B0 7 CHECKING PRESSURE 80FF 0 80FF 8 RECHARGE **17 AIR CHRG VLV** 80FF 80FF 0 10B0 9 DUMMY 80FF 80FF 0 80FF 0000 10 TD" - DOWN TO TEST TUBE 8643 80FF 0000 0 0 11 DUMMY 80FF 80FF 80FF 0000 0 12 "AS" - MIX SAMPLE (BP 1.5 SEC) 13 DELAY BEFORE ASPIRATE J10 BURP VLV, CBV3, EBV3, 80FF 80FF 0 80FF 0000 CBV3, EBV3, 61, J7 AIR CHRG VLV, CBV3, PBV3 80FF 80FF 0 80FF 0000 80FF 14 ASPIRATE TO BEGINNING OF FLOW CELI 4009 0 80FF 0000 15 ACTIVATE SBY TO FILL FLOW CELL WHILE PULLING EP DURING FAST 80FF 0 80FF SBV3. 4022 0000 ACTIVATE SBV TO FILL FLOW CELL WHILE PULLING EP DURING SLOW 16 SBV3. 401D 80FF 0 80FF 0000 PUSH OF CP DURING ANALYSIS 17 DUMMY SBV3 80FF 80FF 0000 0 80FF 18 I"TW" LIFT PIPPETTER TO 2/3 OF THE TUBE D556 80FF 0000 0 J10 BURP VLV 19 LIFT PIPPETER TO THE TOP, AND SPIT AIR 80FE 80FE 80FF 0000 0 20 ROTATE IN TO WASTE WELL 8442 80FF 80FF 80FE 0000 21 DOWN TO WASTE WELL 8647 80FF 80FF 0000 80FF 80FF 0 22 DUMMY 80FF 0000 CBV3, SBV3, 23 I"CP" CLEAN FLOWCELL WINDOW FOR 2 SEC 4019 80FF 0 80FF 0000 80FF 24 TRAISE PIPPETTER 80FF D556 0 0000 J10 BURP VLV 80FF 80FF 0 80FF 0000 25 ICLEAR PIPPETTER 80FF 26 JUFT PIPPETER 80FF 80FE 0 0000 80FF 0 80FF 27 DUMMY 80FE 0000 28 "PS" PRIME SHEATH SUPPLY LINE 80FF 80FF 0 80FF 0000 0 80FF 80FF 29 DUMMY 80FF 0000

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NSOŘ Tate	SENSOR MASK	MOTOR TEST	SM TEST	TOSM	TVALUE	TFUNC	END CTRL	BRAN CTRL	DEST
) )	O	0	0X0000	0xFF	000	000000	0x0007	0x0000	0x0000
)	0	FB	0X0000	0X11	0X0	0X0000	0x0007	0x0000	0x0000
<u> </u>	Ŏ	B3	0X0000	0X11	0X0	0X0000	0x0007	0x0000	0x0000
)	0	F3	0X0000	0X11	0X0	0X0000	0x0007	0x0000	0x0000
)	10	FF	oxoooo	0X00	0X0	0X0000	0x0007	0x0000	0x0000
5	10	FF	0X0000 0X0000	ŎXŎŎ	0X0 0X0	0X0000	0x0007	0x0000	0x0000
)	0	FB	0X0000	0X00	0X0	0X0000	0x0007	0x0000	0x0000
5	54	F3	0X0000	0X00	0X0	0X0000	0x0001	0x0101	9
5	54	F3	0X0000	0X00	0X0	0X0000	0x0001	0x0000	0x0000
0	0	F3	0000X0	0X12	0X0	0X0000	0x0007	0x0000	0x0000
0 .	0	23	0X0000	0X13	OXO	0X0000	0x0007	0x0000	0x0000
0	0	F3	0X0000	0X13	0X0	0X0000	0x0007	0x0000	0x0000
0	0	F3	0X0000	0X17	0x42	0x0004	0x0000	0x0000	0x0000
0	0	F3	0X0000	0X17	0X42	0X0023	0X0000	0x0000	0x0000
0	0	33	OX0000	0X17	0x42	0X0024	0x0000	0x0000	0x0000
0	0	33	0X0000	0X17	0x42	0X0025	0x0000	0x0000	0x0000
0	0	33	0X0000	0 <b>X1</b> 7	0x00	0x0000	0x0007	0x0000	0x000x0
0	0	33	0X0000	0X17	0X0	0X0000	0x0007	0x0000	0x0000
0	0	E3	0X0000	0X00	0X0	0X0000	0x0007	0x0000	0x0000
0	0	F3	0X0000	0X00	0X0	0X0000	0x0007	0x0000	0x0000
0	0	FB	0X0000	0x00	0X0	0X0000	0x0007	0x0000	0x0000
0	0	E3	0X0000	0X00	OXO	0X0000	0x0007	0x0000	0x0000
0	0	F3	0X0000	0X15_	0X0	0X0000	0x0007	0x0000	0x0000
0	0	33	0X0000	0X00	0X42	0X0027	0x0000	0x0000	0x0000
0	0	E3	0X0000	0x16	0X0	0X0000	0x0007	0x0000	0x000
0	0	F3	0X0000	0x16	0X42	0X0005	0x0000	0x0000	0x000
0	0	F3	0X0000	0x16	000	0X0000	0x0007	0x0000	0x000
0	0	F3	0X0000	0X16	0X0	0X0000	0x0007	0x0000	0x0000
0	0	F3	0X0000	0X00	0X42	0X0028	0x0000	0x0000	0x0000
0	0	F3	0X0000	0X20	OXO	0X0000	0x0007	0x0000	0x000

STATE STATE DESCRIPTION ORDER	ENERGIZED (VALVES ONLY)	EP	FIRST Motor	SECOND MOTOR	SP	SENSOR SELECT
301 "PP" PRIME EVACUATION PUMP	EBV3,	D758	80FF	0	80FF	0000
31 HOLD EBV3 FOR 3 SEC	EBV3,	80FF	80FF	0	80FF	0000
32 DUMMY		80FF	80FF	0	80FF	0000
33 PL" HOME EP	EBV3,	80FD	80FF	0	80FF	
34 PRIME INNER LINE #2	CBV3, SBV3,	DB5C	80FF	0	80FF	0000
35 DUMMY		80FF	80FF	0	80FF	0000
36 "TR" TURN ON RINSE PUMP FOR 2 SEC		80FF	80FF	0	80FF	
37 CHECKING PRESSURE	J7 AIR CHRG	80FF	80FF	0	80FF	
38 RECHARGE	17 AIR CHRG	80FF	80FF	0	80FF	10B0 !
39   FILL SHEALTH TANK FOR 2 SEC	VIV	80FF	80FF	0	80FF	0000
40 DUMMY	1,	80FF	80FF	0	80FF	0000
41 "HP" HOME EP	EBV3,	80FD	80FF	0	80FF	0000
42 DUMMY		80FF	80FF	0	80FF	0000
43 "SB" TRANSFER SHEATH DURING BACKGROUND	CBV3, SBV3,	401A	80FF	0	80FF	0000
44 DUMMY	CBV3, SBV3, CBV3, SBV3,	0_	80FF	0	80FF	0000 i
45 "EB" END BACKGROUND (EP OFF)	CBV3, SBV3,	80FF .	80FF	0	80FF	0000
46   DUMMY		80FF	80FF	0	80FF	0000
47 "DF" DRAIN FLOWCELL	PBV3,	DE5F	80FF	0	80FF	0000
48 DUMMY		80FF	80FF	0	80FF	0000
49 I "IC" HOME EP	EBV3,	80FD	80FF	0	80FF	0000
50   PLACE ROLLER ON TUBE (EP -45 DEG)	EBV3,	860C	80FF	0	80FF	0000
50 PLACE ROLLER ON TUBE (EP -45 DEG) 51 DOWN TO TEST TUBE 52 WASH FLOW CELL WITH IRISOLVE	PBV3,	80FF	8643	0	80FF	0000 i
52 WASH FLOW CELL WITH IRISOLVE	PBV3,	E061	80FF	0	80FF	
531 DUMMY		80FF	80FF	0	80FF	0000
54 START "ZZ"		0	80FF	0	80FF	0000 i
55 END "ZZ"		0	80FF	0	80FF	0000
55 END "ZZ" 56 "RV" RESET VALVES (SUBROUTINE TO BE USED ONLY DURING "BD" TO TURN OFF VALVES)		80FF	80FF	0	80FF	0000
57 DUMMY		80FF	80FF	0	80FF	0000
58 FP" CHECKING PRESSURE		80FF	80FF	0	80FF	10B0
59 RECHARGE		80FF	80FF	0	80FF	10B0
60 DUMMY		80FF	80FF	0	80FF	0000 i
61 "S1" TÜRN ON SHEATH FILL PUMP		80FF	80FF	0	80FF	0000
62 DUMMY		80FF	80FF	0	80FF	0000
ţ9C1						9B2

SENSOR STATE	SENSOR Mask	MOTOR TEST	SM Test	TOSM	TVALUE	TFUNC	END CTRL	BRAN CTRL	DEST
0	0	B3 T	0X0000	0X00		$-\frac{0}{0}$	0x0007	0x0000	0x0000
0	Ŏ	F3	0X0000	0x00	0X0029	0X42	0x0000	0x0000	0x0000
0	Ö	F3	0X0000	0X21	0X0000	0X0	0x0007	0x0000	0x0000
ŏ	Ŏ	F3	0X0000	0X00	0X0000	0X0	0x0007	0x0000	0x0000
Ö	0	B3	0X0000	0X00	0X0000	0X0	0x0007	0x0000	0x0000
0	0	F3	0X0000	0x22	0X0000	0X0	0x0007	0x0000	0x0000
0	Ö	F3	0X0000	0x23	0X002A	0X42	0x0000	0x0000	0x0000
6	54	F3	000000	0x23	0X0000	OXO	0x0001	0x0101	38_
Š	54	F3	000000	0x23	0X0000	OXO	0x0001	0x0000	0x0000
0 .	0	F3	0X0000	0x23	0x0006	0x42	0x0000	0x0000	0x0000
0	0	F3	0X0000	0X23	000000	OXO	0x0007	0x0000	0x0000
Ô	0	F3	0X0000	0000	0X0000	OXO	0x0007	0x0000	0x0000
0	0	F3	0X0000	0X24	0X0000	OXO	0x0007	0x0000	0x0000
Õ	0	33	0X0000	0X31	0x0000	0x0	0x0101	0x0000	0x0000
0	0	33	0X0000	T0X31	0X0000	OXO	0x0000	0x0000	0x0000
0	0	F3	0X0000	0X34	0x0000	0x0	0x0007	0x0000	0x0000
0	0	F3	0X0000	0X34	0X0000	OXO	0x0007	0x0000	0x0000
0	0	B3	0X0000	0X00	0X0000	0X0	0x0007	0x0000	0x0000
0	0	F3	0X0000	0X26	0X0000	OXO	0x0007	0x0000	0x0000
0	0	F3	0X0000	0X00	0X0000	OXO	0x0007	0x0000	0x0000
Ŏ	0	B3	0X0000	0X00	0X0000	0X0	0x0007	0x0000	0x0000
0	0	E3	0X0000	0X00	0X0000	OXO	0x0007	0x0000	0x0000
0	0	B3	0X0000	0X00	0x0000	0x0	0x0007	0x0000	0x0000
0	0	F3	0X0000	0X27	0x0000	0x0	0x0007	0x0000	0x0000
0	0	0	0X0000	0xFF	0x0000	0x0	0x0000	0x0080	0x0000
0	0	0	0X0000	0xFF	0x0000	0x0	0x0000	0x0000	0x0000
0	0	F3	0X0000	0X00	0X0000	· 0X0	0x0007	0x0000	0x0000
0	0	<del>  F3</del>	0X0000	10X26	OX0000	OXO	0x0007	0x0000	0x0000
6	54	F3	0X0000	0X00	0X0000	OXO	0x0001	0x0101	60
5	54	F3	0X0000	0000	0X0000	OXO	0x0001	0x0000	0x0000
<del>0</del>	1 0	F3	0X0000	0x30	0X0000	OXO	0x0007	0x0000	0x0000
<del>0</del>	<del>l ŏ</del>	F3	0X0000	0X32	0x0000	0x0	0x0101	0x0000	0x0000
<del>0</del>	<del>l ŏ</del>	F3	0X0000	0X32	0X0000	OXO	0x0000	0x0000	0x0000

400

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STATE ORDER 63	STATE DESCRIPTION	ENERGIZED (VALVES ONLY)	EP	FIRST Motor	SECOND Motor	SP	SENSOR SELECT
63	"SO" TURN OFF SHEATH FILL PUMP		80FF	80FF	0	80FF	0000
64	DUMMY		80FF	80FF	0	80FF	0000
65	"TO" TURN ON RINSE PUMP FOR 2 SEC WITHOUT FILL SHEALTH		80FF	80FF	0	_80FF	0000
66	CHECKING PRESSURE	J7 AIR CHRG VLV	80FF	80FE	0	80FF	10B0
67	RECHARGE	J7 AIR CHRG VLV,	80FF	80FF	0	80FF	10B0
68	DUMMY		80FF	80FF	0	80FF	0000
69	"HC" INITIALIZE EVACUATION PUMP	J7 AIR CHRG VLV, EBV3,	80FD	80FF	0	80FF	0000
70	PLACE ROLLER ON TUBE (EP -45 DEG)	EBV3,	860C	80FF	0	80FF	0000
71	DUMMY		80FF	80FF	0	80FF	0000

9C5|

SENSOR STATE	SENSOR Mask	MOTOR TEST	SM TEST	TOSM	TVALUE	TFUNC	END CTRL	BRAN CTRL	DEST
0	0	F3	0X0000	0X33	0X0000	0X0	0X0101	0X0000	0X0000
0	0	F3	0X0000	0X33	0X0000	OXO	0X0000	0X0000	0X0000
0	0	F3	0X0000	0X23	0X002B	0X42	0X0000	0X0000	000000
6	54	F3	0X0000	0X23	0X0000	OXO	0X0001	0X0101	68
5	54	F3	0X0000	0X23	0X0000	OXO	0X0001	0X0000	0X0000
0	0	F3	0X0000	0X23	0X0000	0X0	0X0007	0X0000	0X0000
0	00	F3	0X0000	0X27	0X0000	OXO	0X0007	0X0000	0X0000
0.	0	B3	0X0000	0X27	0X0000	OXO	0X0007	0X0000	0X0000
0	0	<u> F3</u>	0X0000	0X27	0X0000	OXO	0X0007	0X0000	0X0000
	1				[				

<sup>1</sup>9C1

	500			505	)		
	502 504	506 5	08	510 5	512 5	14	516 /
STATI	STATE DESCRIPTION	ENERGIZED (VALVES ONLY)	EP	MOTOR	SECOND Motor	SP	SENSOR SELECT
0	DLE		0	80FF	80FF	0_	0000
_1	"HC" HOME CP AND SP	CBV3,	80FE	80FF	80FF	80FE	0000
_2	PLACE ROLLER ON TUBE (CP 45 DEG)	CBV3,	8601	80FF		80FF	0000_
_3	DUMMY		_80FF	80FE		80FF	10000_
4	"PC" PRIME CANNUAL AND SHEATH PUMP	CBV3,	C546	80FF		CA4B	0000
5	DUMMY		80FF	80FF		80FF	0000
6	"PL" PRIME LINES	DRV3, EBV3,	CC4D	80FF		80FF	0000
7	DUMMY		80FF	80FF		80FF	0000
8	RINSE PIPETTER RP ON	SBV3, PBV3, EBV3,	80FF	80FF		C849	0000
9	OPEN SBV, PBV, AND EBV TO VENT EXCESS PRESSURE OUT	SBV3, PBV3, EBV3,	80FF	80FF		80FF	0000
10	DUMMY		80FF	80FF		80FF	0000
11	*PA* PRIME ASPARATION LINE	SBV3, PBV3, EBV3,	80FF	80FF		CE4F	0000
12	DUMMY		80FF	80FF	80FF	80FF	0000
13	"HP" HOME CP AND SP	CBV3,	80FE	80FF	80FF	80FE	0000
14	DUMMY		80FF	80FF	80FF	80FF	0000
15	"RC" DELAY BEFORE RUNNING CP FAST PUSH		80FF	80FF	80FF	80FF	0000
16	FAST PUSH		4001	80FF	80FF	80FF	0000
17	SLOW CP PUSH DURING ANALYSIS		4002	80FF	80FF	80FF	0000
18	DUMMY		0	80FF	80FF	80FF	0000
19	"DB" PLACE SP ROLLER ON HOSE WITH 45 DEG MOVE		80FF	80FF		8601	0000 i
20	DEBUBBLE FOR 3 SECS	CBV3, SBV3, DRV3, EBV3,	80FF	80FF	80FF	C344	0000
21	DUMMY	001/0 001/0 001/0 501/0	80FF	80FF	80FF	80FF	0000
22	"DE" DEBUBBLE (SP 10 REV.)	CBV3, SBV3, DRV3, EBV3,	80FF	80FF		D051	0000
23	DUMMY		80FF	80FF	80FF	80FF	0000 !
22 23 24 25	BEGIN ZZ		0	80FF	80FF	0	0000
25	END ZZ		0	80FF	80FF	0	0000
26	"IC" HOME CP	CBV3,	80FE	80FF	80FF	80FF	0000
27	PLACE ROLLER ON TUBE (CP 45 DEG)	CBV3,	8601	80FF	80FF	80FF	0000
28	CLEAN DRAIN	DRV3, EBV3,	D253	80FF	80FF	80FF	0000
29	DUMMY		80FF	80FF_	80FF	80FF	0000 i
		-'-		<u> </u>	<u> </u>		
	<b>↓</b> 10B1						10A2

518 <sub>)</sub> !	520 <sub>)</sub> 52	22 52	24 52	6 <sub>)</sub> 52	28 5	30 \ 50	32 53	53	6
SENSOR STATE	SENSOR Mask	MOTOR TEST	SIM TEST	TOSM	TVALUE	TFUNC	END CTRL	BRAN CTRL	DEST
i 0	0	0	0X0000	0xFF	0X0000	0X0	0x0007	0x0000	0x0000
0	0	FF	0X0000	0x21	0X0000	0X0	0x0007	0x0000	0x0000
. 0	0	BF	0X0000	0x21	0X0000	0X0	0x0007	0x0000	0x0000
1 0	0	FF	OX0000	0X21	0X0000	0X0	0x0007	0x0000	0x0000
0	0	BE	0X0000	0x00	0X0000	0x0	0x0007	0x0000	0x0000
! 0	0	FF	0X0000	0x23	0X0000	0X0	0x0007	0x0000	0x0000
	0	BF	OX0000	0x00	OXO000	0x0	0x0007	0x0000	0x0000
1_0_	0	FF	0X0000	0x24	0X0000	0X0	0x0007	0x0000	0x0000
!_0_	0	FE	OX0000	0x00	0x0000	0x0	0x0007	0x0000	0x0000
-	0	FF.	OX0000	0x00	0x0014	0x42	0x0000	0x0000	.0x0000
0	0	FF	OX0000	0X25	0X0000	0X0	0x0007	0x0000	0x0000
1_0	0	FE	0X0000	0X00	0X0000	0X0	0x0007	0x0000	0x0000
!_0_	0	FF	OX0000	0x26	0X0000	0X0	0x0007	0x0000	0x0000
0	0	FF	00000X0	0X00	0X0000	0X0	0x0007	0x0000	0x0000
1 0	0	FF	0X0000	0X27	0X0000	0X0	0x0007	0x0000	0x0000
! 0	0	FF	0X0000	0X28	0x0015	0x42	0x0000	0x0000	0x0000
0	0	3F	0X0000	0X28	0x0016	0x42	0x0000	0x0000	0x0000
1 0	0	3F	0X0000	0X28	0X0000	0X0	0X0007	0x0000	0x0000
1 0	0	3F	0X0000	0X28	0X0000	0x0	0x0000	0x0000	0x0000
0	0	FE	0X0000	0X29	0X0000	0X0	0x0007	0x0000	0x0000
0	0	FE	0X0000	0x29	0X0000	0x0	0x0007	0x0000	0x0000
1 0	0	FF	0X0000	0X29	0X0000	0X0	0x0007	0x0000	0x0000
1 0	0	FE	0X0000	0X00	0X0000	0X0	0x0007	0x0000	0x0000
0	0	FF	0X0000	0X30	0X0000	0X0	0x0007	0x0000	0x0000
1 0	0	0	0X0000	0xFF	0X0000	0X0	0x0000	0x0080	0x0000
1 0	0	0	0X0000	0xFF	0X0000	0X0	0x0000	0x0000	0x0000
1 0	0	FF	0X0000	0X00	0X0000	0X0	0x0007	0x0000	0x0000
i 0	0	BF	0X0000	0X00	0X0000	0X0	0x0007	0x0000	0x0000
1 0	0	BF	0X0000	0X00	0X0000	0X0	0x0007	0x0000	0x0000
0	Ó	FF	0X0000	0X31	0X0000	OXO	0x0007	0x0000	0x0000
10A1	1	L	l		1	<b>↓</b> 10B2		_L	

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FIG.10B1

500

STATE STATE DESCRIPTION ORDER	ENERGIZED (VALVES ONLY)	EP	FIRST MOTOR	SECOND Motor	SP	SENSOR SELECT
"RV" RESET VALVES TO OFF (USED INSTEAD OF "RE" DURING "BD" IN 1 30 HYPERTERMINAL)		80FF	80FF	80FF	80FF	0000
31 DUMMY 32 "HS" STANDBY POSITION FOR CP AND SP	CBV3,	80FF 80FE	80FF 80FF	80FF 80FF	80FF 80FE	0000
33 PLACE ROLLER ON TUBE (CP AND SP 45 DEG) 34 DUMMY	CBV3,	8601 80FF	80FF 80FF	80FF 80FF	8601 80FF	0000
35 "EB" END CONSTANT VELOCITY SP MOVE 36 DUMMY		80FF 80FF	80FF 80FF	80FF 80FF	80FF 80FF	0000
JO DOINT			0011		0011	



SENSOR STATE	SENSOR MASK	MOTOR Test	SM Test	TOSM	TVALUE	TFUNC	END CTRL	BRAN CTRL	DEST
0	0	FF	0X0000	0X00	0X0000	0X0	0X0007	0X0000	0X0000
0	0	FF	0X0000	0X30	0X0000	0X0	0X0007	0X0000	0X0000
0	0	FF	0X0000	0X00	0X0000	0X0	0X0007	0X0000	0X0000
0	0	BE	0X0000	0X00	0X0000	0X0	0X0007	0X0000	0X0000
0	0	FF	0X0000	0X21	0X0000	0X0	0X0007	0X0000	0X0000
0	0	FF	0X0000	0X34	0X0000	0X0	0X0007	0X0000	0X0000
0	0	FF	0X0000	0X34	0X0000	0X0	0X0007	0X0000	0X0000

FIG. 11A1

602	604	606	608	610	612	614 )	616 )	618
ATE STATE DESCRI	PTION )	DOR	DAND	SM	CM	CI	CO	RC
o i reset in genera		000000000	OXFFFFFFF	OX80FF	0X80FF	0X80FF	OX80FF	000000
1 ISTART M1: START	HC .	000000000	UXEEEEEE	0X80FD	0X0000	0X80FF	OX80FF	0X0000
2 TEND HC		OX00000000	LOXFFFFFFFF	0X80FF	0X0000	ÖX80FF	I OX80FF	1 0X0000
3 ISTART HR		000000000	10X++++++	0X80FF	0X0000	0X80FF	0X80FF	0X0000
4 IFND HR		1 0X00000000	OXFFFFFFF	0X80FF	0X000X0	0X80FF	0X80FF	0X0000
5 ISTART US: BRANC	H IF UPSTREAM NOT READY	0X00000000	I OXFFFFFFFF	0X0000	000000	0X00900	OX0000	0X0000
6 I BRANCH IF BUFFE	H IF UPSTREAM NOT READY FR FULL	0X00000000	OXFFFFFFF	0X0000	0X0000	0X0000	0X0000	0X0000
SIGNAL OK TO SEI   7   SIGNAL (!READY)	ND RACK; WAIT FOR COMPLETE	0X00000010	OXFFFFFFF	0X0000	0X0000	0X80FF	0X0000	0X0000
8 DELAY 200 MS		0X00000000	OXFFFFFFF	0X0000	0X0000	0X0000	0X0000	0X0000
9 LINSIGNAL OK TO	SEND RACK; FEED IN 2 SEC	1 0X00000000	ÖXFFFFFFEF	0X0000	ÖXÖÖÖÖ	0X0900	0X0000	0X0000
D FND US	SELECTION OF THE SEC.	0X00000000	ÖXFFFFFFF	000000	ÖXÖÖÖÖ	0X80FF	OX0000	000000
FND US WAIT IF NO OTHE	R RACK	000000000	TÖXFFFFFFF	0X0000	0X0000	0X0000	0X0000	000000
2 I RIIN RACK IN		0X00000000	OXFFFFFFF	0X80FF	0X0000	0X0900	0X0900	0X0000
EXTRA SECOND TO	O MAKE FLUSH. READ NSMISSION CHECK IF ROOM AT OUTPUT SIDE	0X00000000	OXFFFFFFF	0X80FF	0X0000	0X0900	0X0900	0X0000
3 TRACK ID FOR TRA 4 TSTOP CONVEYOR:	CHECK IF ROOM AT OUTPUT SIDE	0X00000000	OXFFFFFFF	0X80FF	0X0000	OX80FF	OX80FF	0X0000
) I MOVE KACK IN		0X00000000	OXFFFFFFF	0X8040	0X0000	0X80FF	0X80FF	0X0000
G IGOT RACK		000000000	OXFFFFFFF	0X0000	0X0000	0X0000	0X0000	0X0000
' INO RACK		000000000	OXFFFFFFF OXFFFFFFF	0X0000 0X0000	0X0000 0X0000	0X0000	0X0000 0X0000	0X0000 0X0000
B TEND M1: END U2		0X00000000	<u> OXFFFFFFF</u>	0X0000	0X0000	000000	0X0000	0X0000
START MN: MOVE	TO NEXT TUBE POSITION	0X00000000	OXFFFFFFF	0X8000	0X0000	0X80FF	0X80FF	000000
COMPLETE THE N	10VE AND GET TUBE NUMBER	0X00000000	OXFFFFFFF	0X80FF	0X0000	0X80FF	0X80FF	0X0000
STABILIZE BEFOR	RE READING TUBE DETECTOR	0X00000000	OXFFFFFFF	0X80FF	0X0000	0X80FF	0X80FF	0X0000
STORE TUBE DETI In Ire present	ECTOR VALUE, BRANCH TO SCAN IF	040000000	AVECTECT	מעממדנ	0,0000	ΛΥΩΛΓΓ	ΑΥΩΛΕΓ	OVOCO
IUBE PRESENT	DANCH TO FUDIAL	0X00000000	OXFFFFFFF	0X80FF	0X0000	0X80FF	OX80FF	0X0000
UNCONDITIONAL I	BRANCH TO ENDMN	0X00000000	OXFFFFFFF	0X80FF	0X0000	0X80FF	0X80FF	0X0000
SCAN BARCODE	AND LAKE	0000000000	OXFFFFFFF	0X80FF	000000	0X80FF	OX80FF	0X0000
S END MN; SEND C S START ER	OMPLETION TO MC	000000000	OXFFFFFFF	0X80FF	0X0000	0X80FF	0X80FF	0X0000
START ER	· · · · · · · · · · · · · · · · · · ·	0X00000000	OXEFFFFFF	0X8041	0X0000	OX80FF	0X80FF	0X0000
		000000000	OXFFFFFFF OXFFFFFFF	0X8004 0X80FF 0X80FF	0X0000 0X0000	0X80FF 0X80FF	0X80FF 0X0900	00000
3		000000000 0000000000	OXFEFFEFE	1 OVOULE	000000	OX80FE	00900	0,0000
END ER: SEND CO	OMPLETION TO MC	000000000	OXFFFFFFF	OX80FF	000000	0X80FF	0X80FF	000000
BEGIN BC	ATHEL HORE TO PIC	000000000	OXFFFFFFF	0X0000	000000	000000	0X0000	000000
)		000000000	VALLECTER	0X0000	000000	000000	0X0000	00000
END BC		000000000	OXFFFFFFF OXFFFFFFF	00000	000000	000000	TÖXÖÖÖÖ	ŎŶŎŎŎŎ
Í TREGIN CRORUNIN	VFEED CONVEYOR IN REVERSE	000000000	ÖXFFFFFFF	0X80FF	0X0000	0X0100	0X80FF	000000
5 HOME SAMPLE	CARRIER WHILE DISCHARGE RUNS	000000000	ÖXFFFFFFF	OX80FD	0X80FD	0X80FF	0X0900	0X0000
6 MOVE SAMPLE L	EVER TO FIECT POSITION	000000000	OXFFFFFFF	0X8044	000000	0X80FF	0X0000	000000
7 HOME SAMPLE L	FVFR	0000000000	ÖXFFFFFFF	OX80FD	0X0000	0X80FF	0X0000	0X0000
		= [			J		L	11A2

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FIG. 11A2

620 /	622	624 6 S	526 \	628	65	30 632	63 <sub>4</sub>	4 636	638 /	640
SENSEL	STST	SMSK	MTST	SMTST /	TOSM (	TVAL (	TFNC	ENDCTL )	BRNCTL	DEST
OX0000	0X00	0X00	OX00	000000	OXEE	0X0000	0X00	0x0000	0x0000	0x0000
0X0000	0000	OXOO	ÖXFF	0X0000	0	0X0000	0X00	0x0007	0x0000	0x0000
0X0000	0000	0X00	OXFF	0X0000	0	0X000X	0X00	0x0007	0x0000	0x0000
0X0000	0X00	0X00	OXFF	0X0000	0	OX0000	0X00	0x0007	0x0000	0x0000
_0X0000	0X00	OX00	OXFF	0X0000	00	OX0000	0X00	0x0007	0x0000	0x0000
0x0030	0x04	0x04	OxFF	0X0000	0	0X000A	_0X42	0X0000	0x0101	12
0X0230	0X00	0X04	OXFF_	0X0000	0	OX0000	0X00	0X0001	0x0101	12
0X0030	0X00	0X04	OXFF	0X0000	0	0X0000	0X00	0X0001	0X0000	0x0000
0X0000	0X00	0X00	OXFF	0X0000	0	0X000B	0X42	0X0000	0X0000	0X0000
OX0000	0X00	0X00	OXFF	0X0000	0	0X000C	0X42	0x0000	0X0000	0X0000
0X0030	0X04	0X04	OXFF	0X0000	0	0X0000	0X00	0X0006	0X0001	5
0X0040	OX1F	OX1F	OXFF	0X0000	0	0X000D	0X42	0x0001	0X0000	0X0000
0X0040	OX1F_	OX1F	0000	0X0000	00	0X000E	0x43	0x0007	0x0000	17
0x0040	0X00	0x1F	0X00	0X0000	0	0X000F	0x42	0x0006	0x0000	0x0000
OX0230	0X01	0X01	OXFF	0X0000	0	0x0000	0x00	0x0006	0x0001	17
0X0000	0X00	0X00	OXFF	0X0000	0	0X0000	0X00	0x0007	0x0000	0x0000
OX0000	0x00	0x00	0x00	0X0000	0x31	0X0010	0X43	0x0000	0x0101	18
0X0000	0X00	0X00	OXFF	0X0000	0x39	0X0011	0X42	0x0101	0X0000	0X0000
0X0000	0X00	0X00	OXFF	0X0000	0	0X0000	0X00	0x0000	0X0000	0X0000
0X0000	0X00	0X00	OXFF	0X0000	0	0X0000	0X00	0x0007	0x0000	0x0000
0xE000	OX00	OX1E_	0X00	0X0000	0	0X0000	0X00	0x0007	0x0000	0x0000
OX0000	0X00	OX00	_ 0X00	0X0000	0	0X0012	0x42	0x0007	0x0000	0x0000
: 0X10A0	0x05	0X48	0X00	0X0000	0	0x0000	0x00	0x0202	0x0001	24 25
0x0000	0X00	0x00	0X00	0X0000	0	0X0000	0X00	0x0000	0x0202	
0X4000	0X00	OX1F	0X00	0X0000	0	0X0000	0X00	0x0007	0x0000	0x0000
	0X00	0X00	OXFF	0X0000	0X32	0X0000	0X00	0x0007	0x0000	0x0000
0X0000	0X00	0X00	OXFF	0X0000	0	0X0000	0X00	0x0007	0x0000	0x0000
0X0000	0X00	0X00	OXFF	0X0000	0	0X0000	0X00	0x0007	0x0000	0x0000
0X0230	0X02	0X02	0X00	0X0000	0	0X0013	0x43	0x0007	0x0000	30
0X0000	0X00	0X00	0X00	0X0000	0	0X0014	0x42	0x0007	0x0000	0x0000
0X0000	0X00	0X00	OXFF	0X0000	0X33	0X0000	0X00	0x0007	0x0000	0x0000
0X4000	0X00	OX1F	0X00	0X0000	0	0X0000	0X00	0x0007	0x0000	0x0000
000000	0X00	0X00	0X00	0X0000	0x44	0X0015 0X0000	0000	0x0000 0x0007	0x0000 0x0000	0x0000 0x0000
_0X0000	0000	0X00	0X00	0X0000	0.20	0X0000 0X0016	0000	0x0007	0x0000	0x0000
1 0x0000	0000	0x00	0x00	0X0000	0x30	0X0016 0x0000	0X02	0x0007 0x0007	0x0000	0x0000
0x0000	0X00	0x00	OxFF	0X0000	0	0x0000	0x00 0x00	0x0007	0x0000	0x0000
0x0000 0x0000	0000	_0x00	OxFF OxFF	0X0000 0X0000	0	0x0000	0x00	0x0007	0x0000	0x0000
1	0X00	0x00	VAFF	000000	l	1 UXUUUU	1 0,000	UXUUU/	<u> </u>	<u> </u>
<b>←</b>			·	7400	<del>_</del> _					

111A1

STATE STATE DESCRIPTION ORDER	DOR	DAND	SM	CM	Cl	CO	RC
<u> 38 I. RUN CARRIER OUTPUT BUFFER MOTOR UNTIL SENSOR I</u>	0X00000000	OXFFFFFFF	OX80FF	0X0000	0X80FF	_0X0000	<u>0x0000</u>
NOT BLOCKED OR UNTIL TIME OUT  39   RUN CO A LITTLE LONGER	000000000	OXFFFFFFF	0X80FF	0X0000	OX80FF	000000	0x0000
40 L FND CR	0X00000000 0X00000000	ÖXFFFFFFF	0X80FF 0X80FF	0X0000 0X0000	0X80FF 0X80FF	OX80FF OX80FF	0x0000 0x0000
BEĞIN IC (IS CLEAR); IF OUTPUT SENSOR NOT BLOCKED 41   Branch to "Is Clear = True"	UNUUUUUUUU	UNTTETTT	VAOULL	0.0000	UNOULL	UNOUFF	UXUUUU
RUN CARRIER OUTPUT BUFFER MOTOR UNTIL SENSOR NOT BLOCKED OR UNTIL TIME OUT. IF TIMEOUT							
42   BRANCH TO "IS CLEAR = FALSE"	0X00000000	OXFFFFFFF	0X80FF_	000000	0X80FF	000000	0x0000
43   RUN CO A LITTLE LONGER 44   IS CLEAR = TRUE, SEND 'T', BRANCH TO END IS	0X00000000	OXFFFFFFF OXFFFFFFF	OX80FF OX80FF	0X0000 0X0000	OX80FF OX80FF	0X0900 0X80FF	0x0000
45   S CLEAR = FALSE; SEND 'F' 46   END IS	000000000	OXFFFFFFF	0X80FF	0X0000	OX80FF	OX80FF OX80FF	0x0000
47 I BEGIN WR	0X00000000 0X00000000	OXFFFFFFF OXFFFFFFFF	0X80FF 0X0000	0X0000 0X0000	0X80FF 0X0000	OX0000	0x0000 0x0000
48   49   END WR	0X00000000	OXFEFFFFF OXFFFFFFF	0X0000 0X0000	0X0000 0X0000	0X0000	0X0000 0X0000	0x0000 0x0000
50 BEGIN ZZ	0X00000000 0X00000000	ÖXFFFFFFF OXFFFFFFF	0X0000 0X0000	0X0000 0X0000	0X0000 0X0000 0X0000	ÖXÖÖÖÖ OXOOOO	0x0000 0x0000 0x0000
51   END_ZZ	0,000000000	VAFFFFFFF	0,0000	0,0000	000000	0,0000	11000

SENSEL	STST	SMSK	MTST	SMTST	TOSM	TVAL	TFNC	ENDCTL	BRNCTL	DEST
0X0230	0X00	0X01	0X00	0X0000	0	0X0017	0 <b>X</b> 42	0X0001	0X0000	0X0000
0X0000 0X0000 0X0230	0X00 0X00 0X00	0X00 0X00 0X01	0X00 0X00 0X00	0X0000 0X0000 0X0000	0 0X33 0X30	0X0018 0X0000 0X0000	0X42 0X00 0X00	0X0007 0X0101 0X0101	0X0000 0X0000 0X0001	0X0000 0X0000 44
1	0/100	one :	0.00							
i 0X0230 i 0X0000	0X00 0X00	0X01 0X00	0X00 0X00	0X0000 0X0000	0	0X0019 0X001A	0X43 0X42	0X0001 0X0007	0X0000 0X0000	45 0X0000
0X0000 0X0000	0X00 0X00	0X00 0X00	0X00 0X00	0X0000 0X0000	0X54 0X46	0X0000 0X0000	0X00 0X00	0X0000 0X0101	0X0101 0X0000	46 0X0000
0X0000 0X0030 0X0000	0X00 0X04 0X00	0X00 0X04 0X00	OXOO OXFF OXFF	0X0000 0X0000 0X0000	0 0X52	0X0000 0X0000 0X001B	0X00 0X00 0X42	0X0101 0X0001 0X0000	0X0000 0X0000	0X0000 0X0000 0X0000
1 0X0000	0X00 0X00	0X00 0X00	OXFF OXOO	0X0000 0X0000	OXFF	0X0000 0X0000	0X00 0X00	0X0000 0X0000	0X0000 0X0080	0X0000 0X0000
0X0000	0X00	0X00	0X00	0X0000	OXFF	0X0000	0X00	0X0000	0X0000	0X0000
11B1	ı	1	1	ı	ı	1	•	•	•	1